

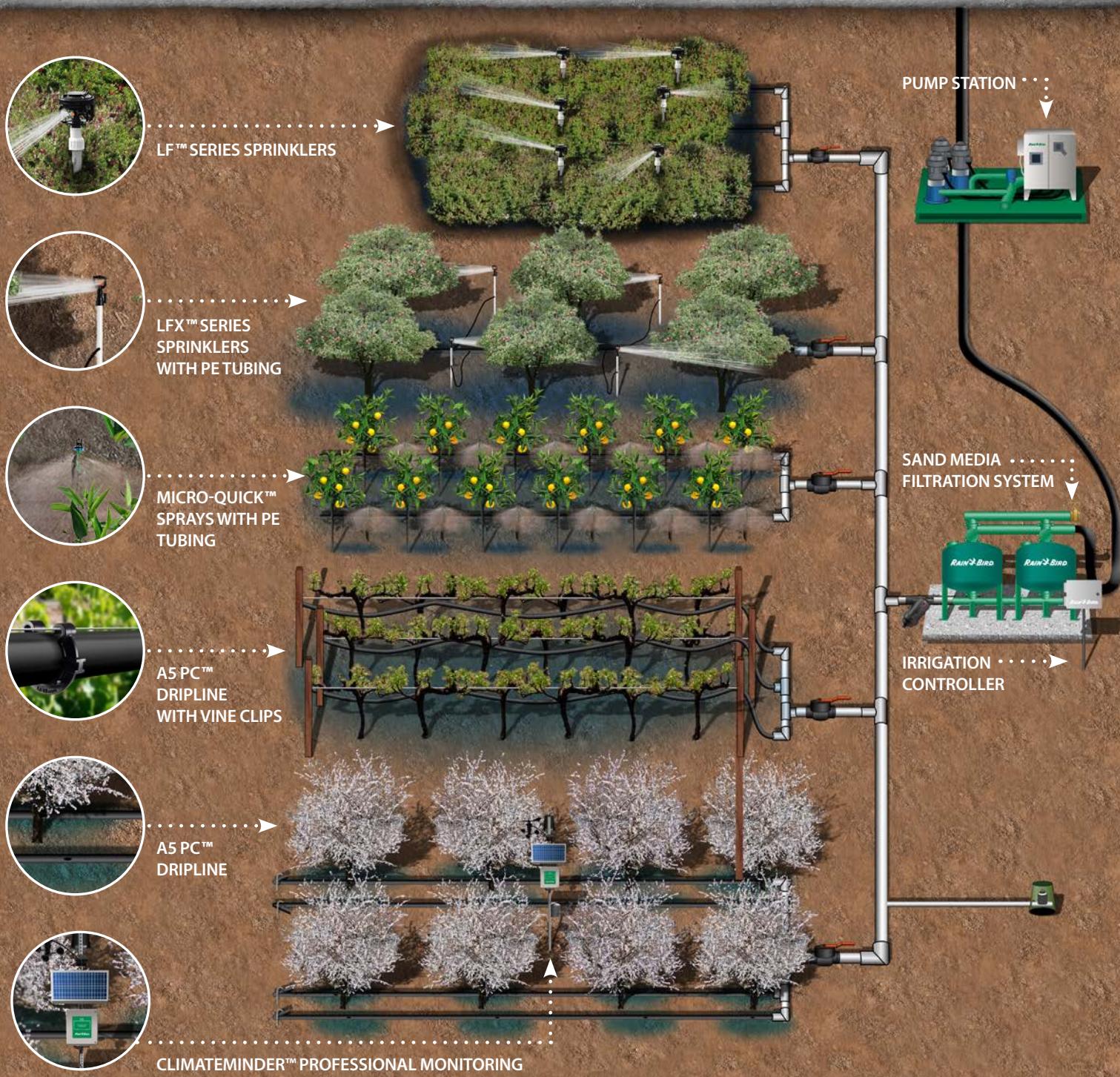


Agricultural Irrigation Products

2017 Catalog



A Legacy of Agricultural Innovation



IRRIGATION PRODUCTS NEEDED FOR ALL STAGES OF FIELD DEVELOPMENT

With a legacy rooted in agriculture, Rain Bird applies its industry leading irrigation expertise to design and manufacture a number of solutions to meet a grower's needs. From low-volume precision dripline irrigation to high-volume long-throw sprinklers – our products minimize maintenance, maximize distribution uniformity and efficiently deliver water and nutrients to where it's needed during all stages of a crop's life.



Drip Irrigation

| | |
|---|----|
| • A5 PC™ Series Pressure Compensating Heavywall Dripline..... | 06 |
| • PE Polyethylene Tubing..... | 14 |
| • Distribution Tubing | 16 |
| • Online Emitters - PC Emitter..... | 17 |



Micro-Quick™ Sprays and Micro Bird Spinner

| | |
|--|----|
| Micro-Quick™ Spray Introduction | 20 |
| • Micro-Quick™ Sprays Water Application for a Young Tree vs. a Mature Tree | 21 |
| • Micro-Quick™ Sprays System Components..... | 22 |
| • Micro-Quick™ Sprays Performance Data | 23 |
| • Micro Bird® Spinners..... | 25 |



Low Flow Sprinklers

| | |
|--|----|
| LFX™ Series Low Flow Sprinkler Introduction..... | 28 |
| • LFX300 Performance Charts | 30 |
| LF™ Series Sprinklers Introduction | 34 |
| • LF800 Performance Charts | 38 |
| • LF1200 Performance Charts..... | 40 |
| • LF2400 Performance Charts..... | 42 |
| • LF2400 Long Range Performance Charts..... | 44 |



Impact Sprinklers

| | | | |
|---------------------|------------------------|-------------------------|--------------------------|
| • 14VH..... 50 | • L36H / L36AH..... 56 | • 70CH / 70CHM 66 | • 35A-PJ-ADJ-TNT 72 |
| • L20VH 51 | • 48H 58 | • 80EHD..... 68 | • 35A-PJ-DA-TNT 72 |
| • L20H 52 | • 30H / 30WH 60 | • 25BPJ..... 70 | • 65PJ..... 73 |
| • M20VH-PM 53 | • 30PWH..... 62 | • 2045-PJ 71 | • 85EHD 74 |
| • 20JH..... 54 | • 14070H..... 63 | • 35A-TNT..... 72 | • 85EHD-LA 76 |
| • 29JH..... 55 | • 30FH / 30FWH..... 65 | • 35A-ADJ-TNT..... 72 | |



Monitoring and Controls

| | |
|--|----|
| • Cyclik™ Wireless Automatic Control System..... | 80 |
| • ESP-LX Series Controllers..... | 81 |
| • ESP-LX Series with ClimateMinder™ Control..... | 82 |
| • ClimateMinder™ Professional Monitoring..... | 83 |



Filtration

| | |
|---|----|
| • SM Series Sand Media | 89 |
| • HDF Series Disc Filter..... | 92 |
| • G Series Hydraulic Suction Scanning Filter | 93 |
| • C+ Series Automatic Hydraulic Suction Scanning Filter | 94 |
| • CS Series Centrifugal Sand Separator | 96 |
| • PSS Series Self-Cleaning Pump Screen | 97 |
| • M Series Pressure Regulator..... | 98 |

Drip Irrigation

Rain Bird® has leveraged over 75 years of irrigation expertise to develop a line of agriculture tubing products. Allowing for precise water and nutrient application, A5 PC™ Series Pressure Compensating Dripline and PE Polyethylene tubing were designed and developed to address the key issues facing growers today.

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION



Drip Irrigation



DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION

A5 PC™ Series Pressure Compensating Heavywall Dripline



Ultimate in water distribution; precision location, one drop at a time. Reliable, durable, and high performing pressure compensating dripline ideal for permanent crop applications.

Features

Reliable, Steady Flow

A5 PC's grit-tolerant, clog-resistant design ensures that water will keep flowing to crops, whether it is being drawn from a well, pond, reservoir or canal.

High Uniformity and Efficiency

The technologically advanced pressure-compensating design of the low-profile flat-emitter maximizes uniformity and water-use efficiency, even with elevation changes. Increase crop yield by reducing the use of water, chemicals, and fertilizer.

Maximum Durability

Growers demand reliable performance in the harshest conditions. A5 PC dripline is engineered and tested to stand up to harsh chemicals, UV radiation and damage that can be caused by farm equipment, giving you years of worry-free performance.

Application Versatility

Best suited for permanent crops, orchard and vineyard applications including grapes, hops, stone fruit, almonds, walnuts, pistachios, blueberries, and pecans.

Operating Range

- Compensating Pressure: 7 to 60 psi (0.48 to 4.14 bar)
- Water Temperature: Up to 110° F (43.3° C)
- Ambient Temperature: Up to 150° F (65.6° C)
- Required Filtration: 120 mesh (125 micron)

Specifications

Nominal Flow Rates:

- 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)
- 1.06 gph (4.0 l/h)

Standard Emitter Spacing:

- 18", 24", 30", 36", 42", 48", 60"
- 20 cm, 40 cm, 45 cm, 50 cm, 55 cm, 60 cm, 70 cm, 75 cm, 100 cm
- Custom spacing available

Tubing Dimensions:

- 16 mm with 35mil wall: OD 0.610" (15.5mm), ID 0.540" (13.7mm), wall thickness 0.035"(0.9mm)
- 16 mm with 45mil wall: OD 0.630" (16.0mm), ID 0.540" (13.7mm), wall thickness 0.045"(1.1mm)
- 18 mm: OD 0.709" (18.0mm), ID 0.619" (15.7mm), wall thickness 0.045"(1.1mm)
- 20 mm: OD 0.786" (19.9mm), ID 0.690" (17.5mm), wall thickness 0.048"(1.2mm)

Customer Satisfaction Policy:

Rain Bird's Customer Satisfaction Policy provides 5 years of protection on product workmanship and 7 years on environmental stress cracking.

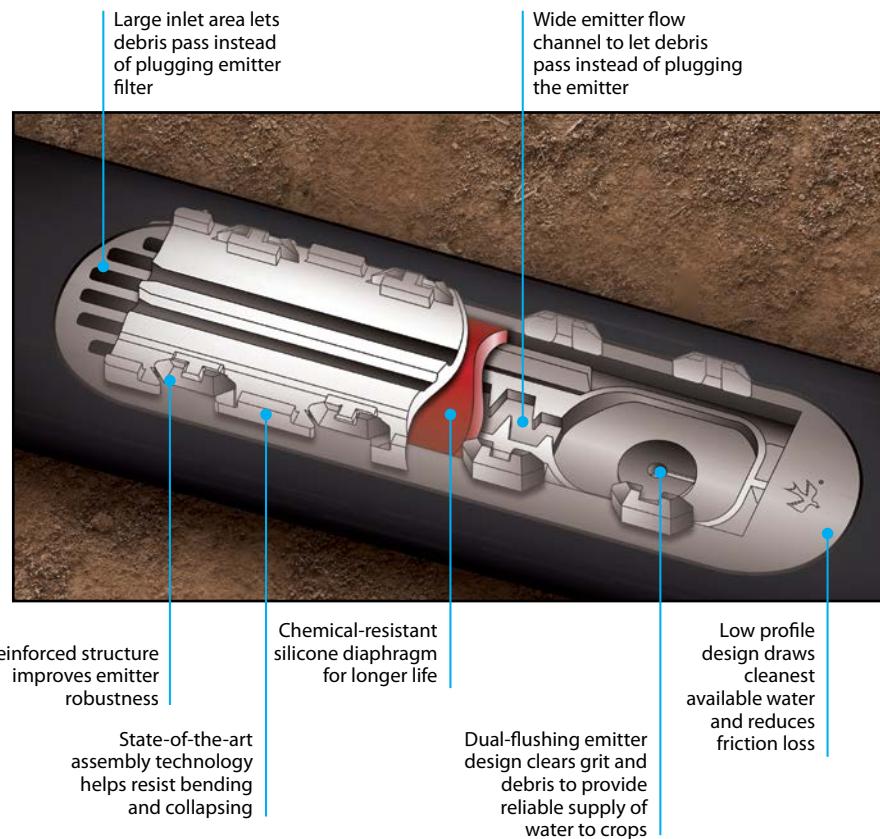


Optional Preinstalled Vine Clips

Rain Bird preinstalled vine clips help improve water placement and dramatically reduce installation time and labor costs. Vine clips are available on A5 PC™ Pressure Compensating Dripline and select sizes of PE Polyethylene Tubing. Ideal for all on-wire dripline applications.

- Installed to the growers specifications at the time of order; most common spacing ranges from 24" to 48"
- Easily adjustable in field to position and hold dripline or emitter location in place for precise water application
- Commonly used in applications with elevation changes to prevent water migration and ensure droplets fall at desired plant location
- Low profile design optimal for mechanical harvesting

A5 PC™ Series Pressure Compensating Ag Dripline With GritX™ Emitter Technology



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) | 1.06 gph (4.0 l/h) |
|--------------------------------------|---------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Coefficient of Variation (Cv) | 0.036 | 0.037 | 0.035 | 0.028 | 0.035 |
| Constant (k) | 0.35 | 0.41 | 0.53 | 0.63 | 1.01 |
| Exponent (x) | -0.026 | 0.019 | 0.017 | 0.007 | 0.004 |
| Barb Loss Factor (Kd) | 16mm = 1.40, 18mm = 0.85, 20mm = 0.41 | | | | |

How to Order A5 PC™ Series Pressure Compensating Ag Dripline

A5

- **18** -

05 -

18 -

24

Model

A5 PC™ AG Dripline

Tube Diameter

1635 = 16 mm 0.035 wall

1645 = 16 mm 0.045 wall

18 = 18 mm 0.045 wall

20 = 20 mm 0.048 wall

Flow Rate

03 = 0.31 gph (1.2 l/h)

04 = 0.42 gph (1.6 l/h)

05 = 0.53 gph (2.0 l/h)

06 = 0.61 gph (2.3 l/h)

10 = 1.06 gph (4.0 l/h)

Emitter Spacing

18 = 18" (45.7 cm)

24 = 24" (61.0 cm)

30 = 30" (76.2 cm)

36 = 36" (91.4 cm)

42 = 42" (106.7 cm)

48 = 48" (121.9 cm)

60 = 60" (152.4 cm)

Vine Clip Spacing (Optional)

24 = 24" (61.0 cm)

30 = 30" (76.2 cm)

36 = 36" (91.4 cm)

42 = 42" (106.7 cm)

A5 PC™ 16 mm Headloss and Lateral Length

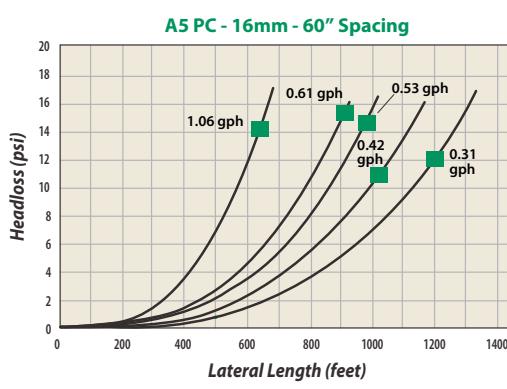
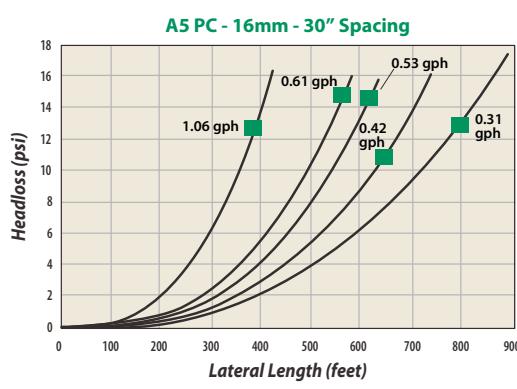
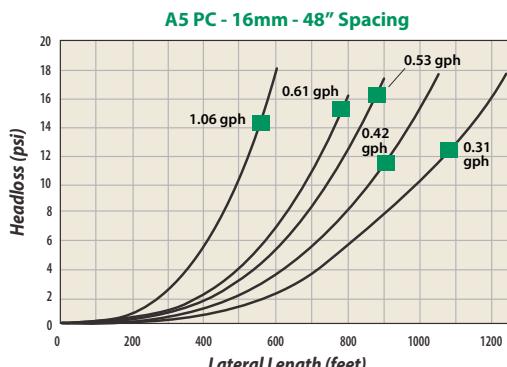
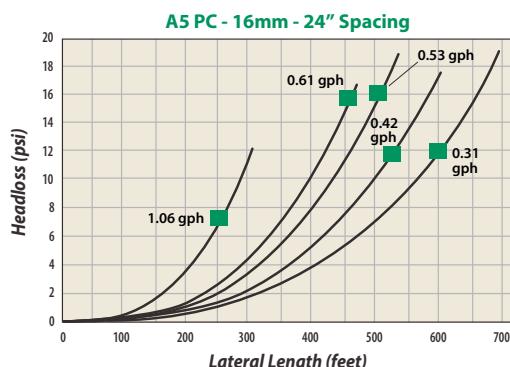
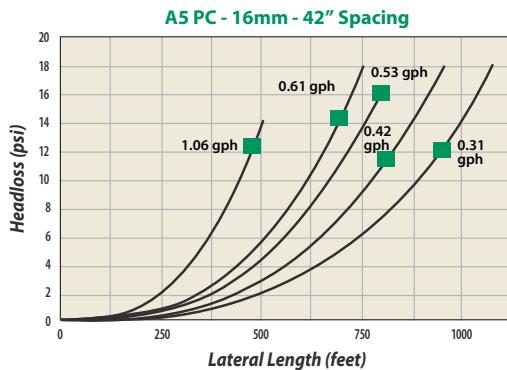
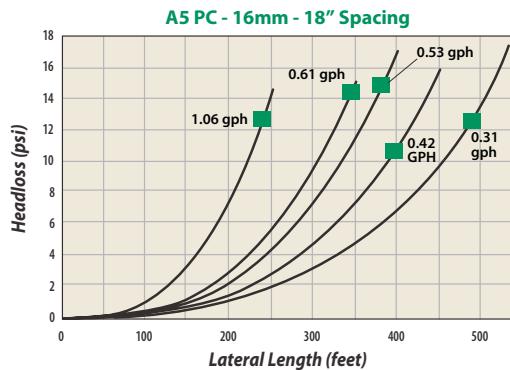
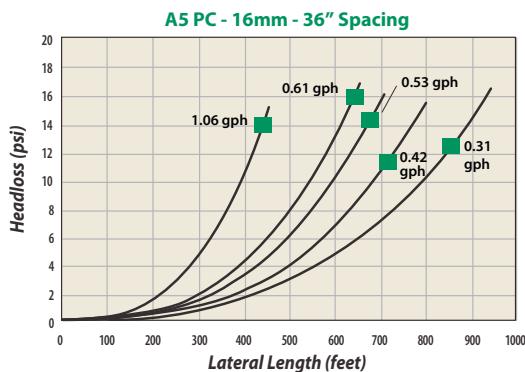
Calculating Lateral Length Inlet Pressure

$$\begin{aligned} &\text{Line End Pressure*} \\ &+ \text{Pressure Loss (from graph)} \\ &= \text{Inlet Pressure} \end{aligned}$$

*Minimum pressure at lateral length end = 7 psi.

Example:

$$\begin{array}{ll} \text{A5 PC 18" Spacing} & \text{7 psi (end pressure)} \\ 0.53 \text{ gph}, 350' Run & + 12 \text{ psi (from graph)} \\ \text{Minimum Inlet Pressure} & = 19 \text{ psi} \end{array}$$



A5 PC™ 16 mm Headloss and Lateral Length (Metric)

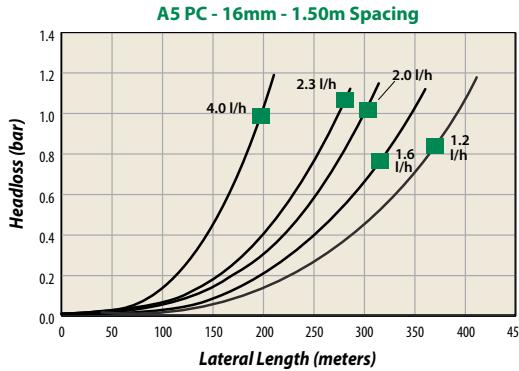
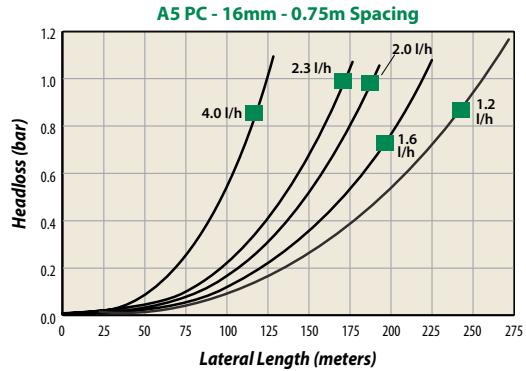
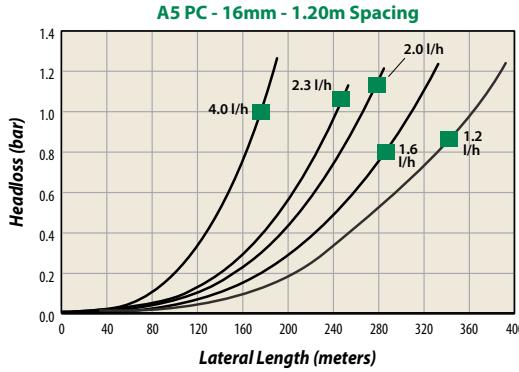
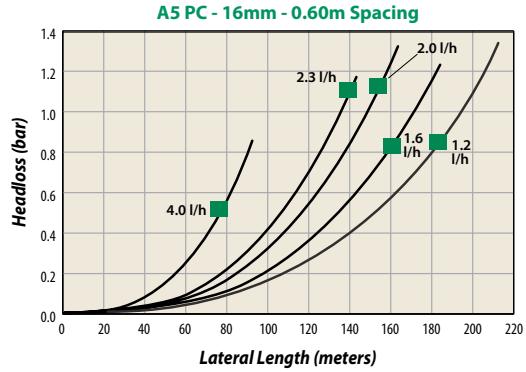
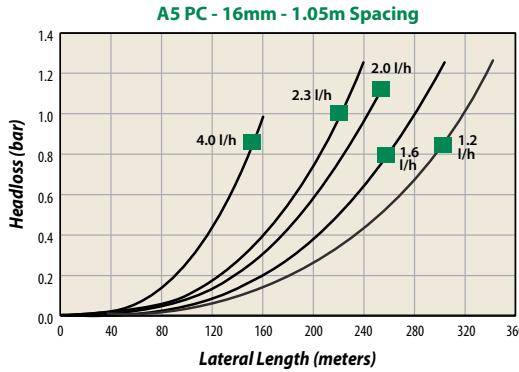
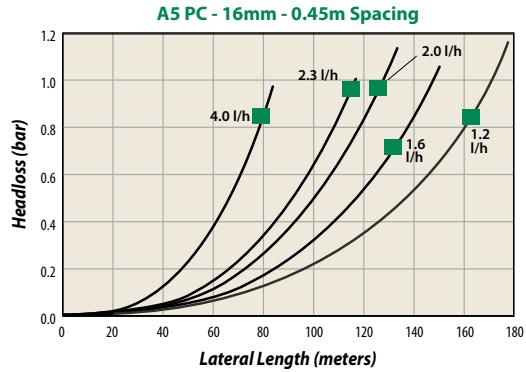
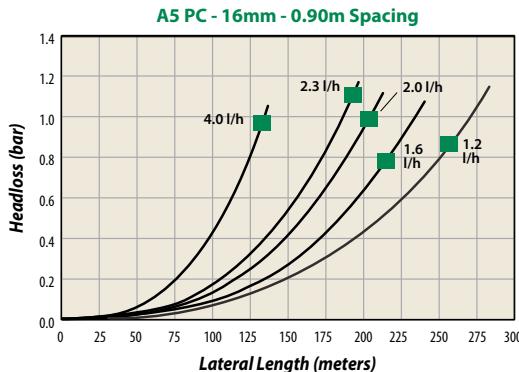
Calculating Lateral Length Inlet Pressure

$$\begin{aligned} &\text{Line End Pressure*} \\ &+ \text{Pressure Loss (from graph)} \\ &= \text{Inlet Pressure} \end{aligned}$$

*Minimum pressure at lateral length end = 0.48 bar.

Example:

$$\begin{aligned} \text{A5 PC 0.45m Spacing} & \quad \text{0.48 bar (end pressure)} \\ 2.0 \text{ l/h, 106.7m (350') Run} & \quad + 0.82 \text{ bar (from graph)} \\ \text{Minimum Inlet Pressure} & \quad = 1.30 \text{ bar} \end{aligned}$$



A5 PC™ 18 mm Headloss and Lateral Length

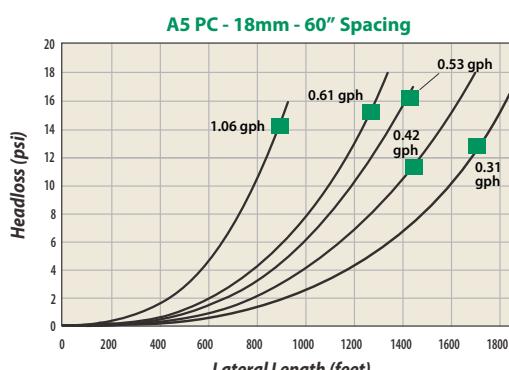
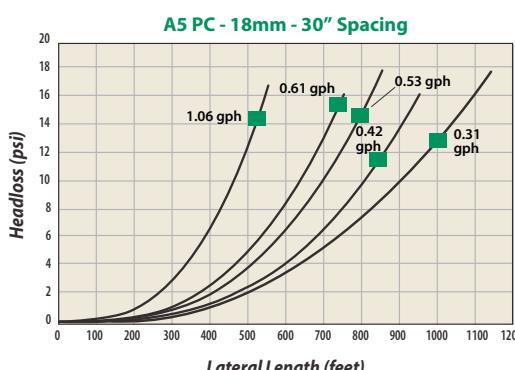
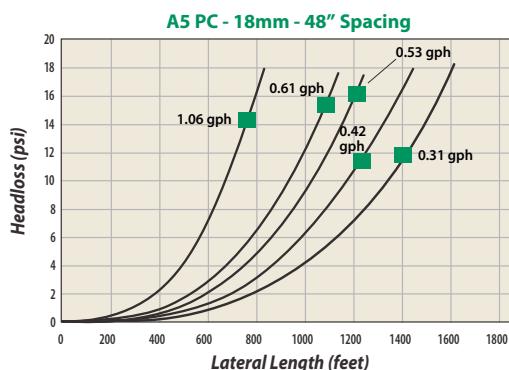
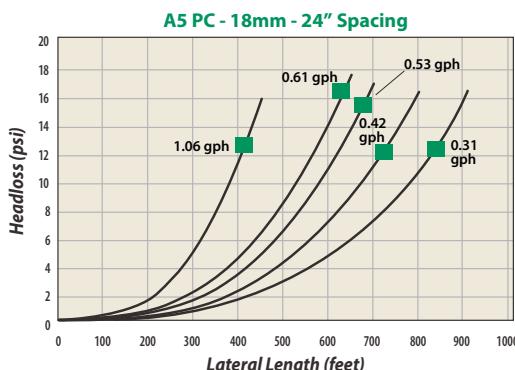
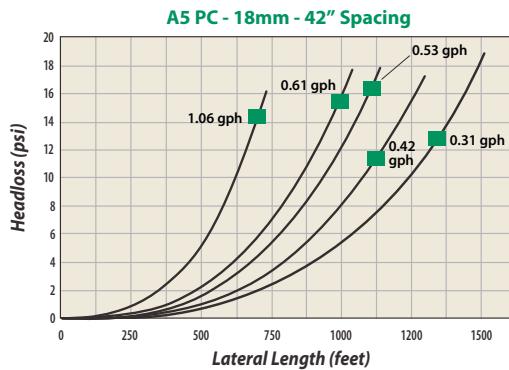
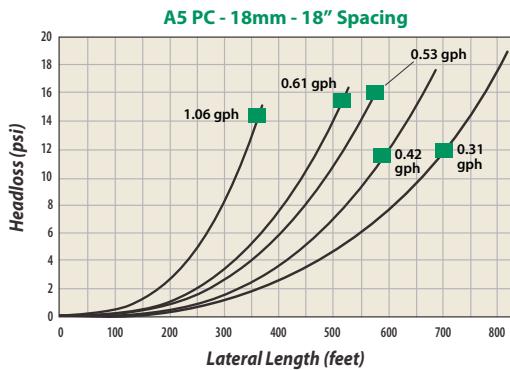
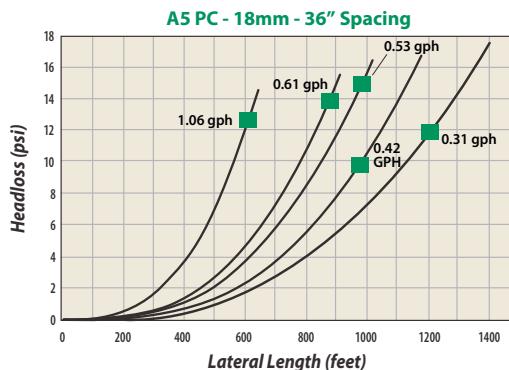
Calculating Lateral Length Inlet Pressure

$$\begin{aligned} &\text{Line End Pressure*} \\ &+ \text{Pressure Loss (from graph)} \\ &= \text{Inlet Pressure} \end{aligned}$$

*Minimum pressure at lateral length end = 7 psi.

Example:

$$\begin{array}{ll} \text{A5 PC 18' Spacing} & \textbf{7 psi (end pressure)} \\ 0.53 \text{ gph}, 500' \text{ Run} & + \textbf{11 psi (from graph)} \\ \text{Minimum Inlet Pressure} & = \textbf{18 psi} \end{array}$$



A5 PC™ 18 mm Headloss and Lateral Length (Metric)

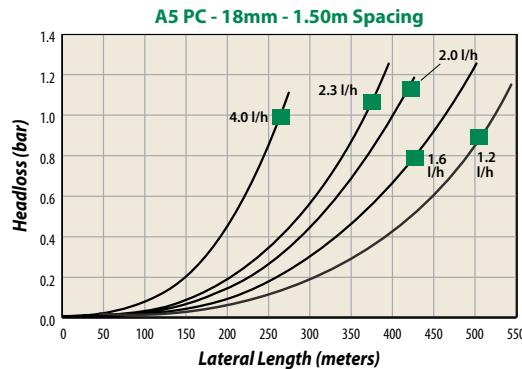
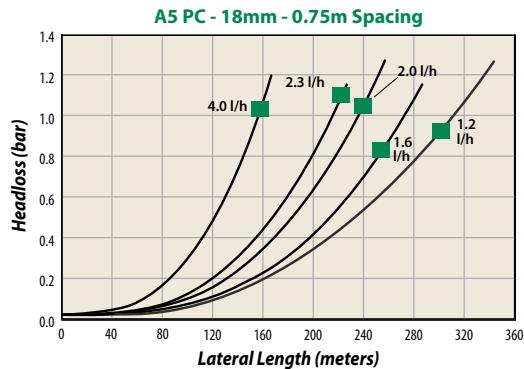
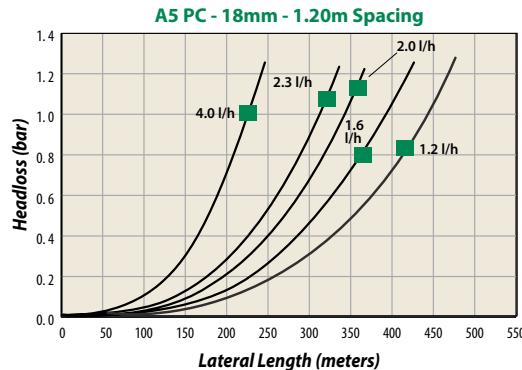
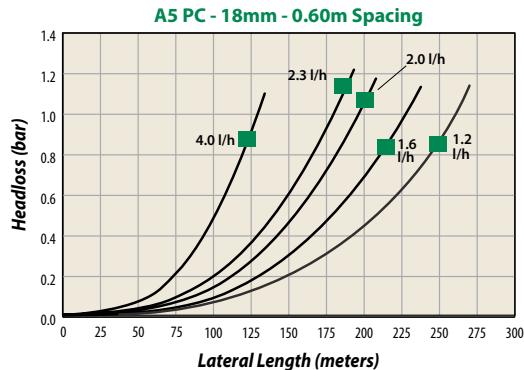
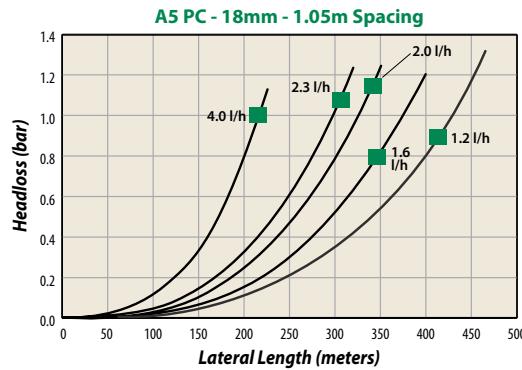
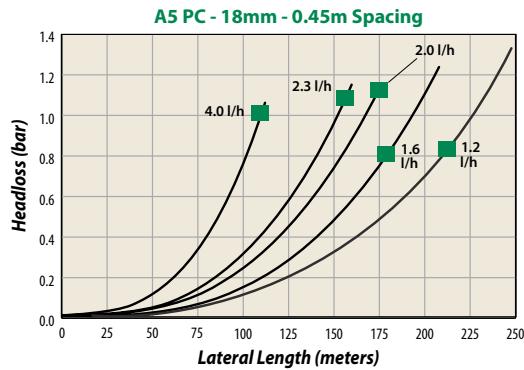
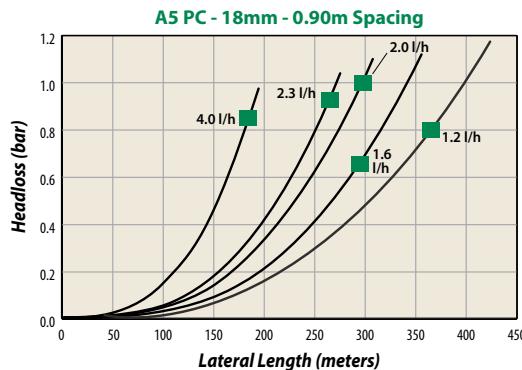
Calculating Lateral Length Inlet Pressure

$$\begin{aligned} & \text{Line End Pressure*} \\ + & \text{ Pressure Loss (from graph)} \\ = & \text{ Inlet Pressure} \end{aligned}$$

*Minimum pressure at lateral length end = 0.48 bar.

Example:

$$\begin{aligned} \text{A5 PC } 0.45\text{m Spacing} & \quad 0.48 \text{ bar (end pressure)} \\ 2.0 \text{ l/h, } 152.4\text{m (500') Run} & + 0.75 \text{ bar (from graph)} \\ \text{Minimum Inlet Pressure} & = 1.23 \text{ bar} \end{aligned}$$



A5 PC™ 20 mm Headloss and Lateral Length

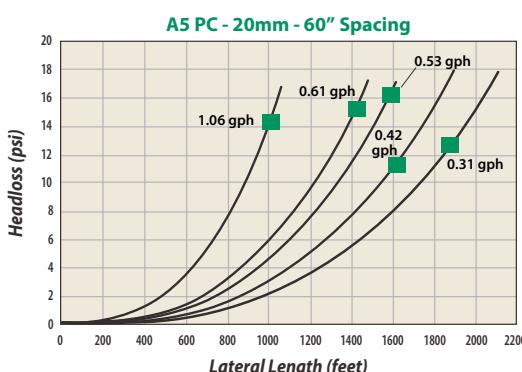
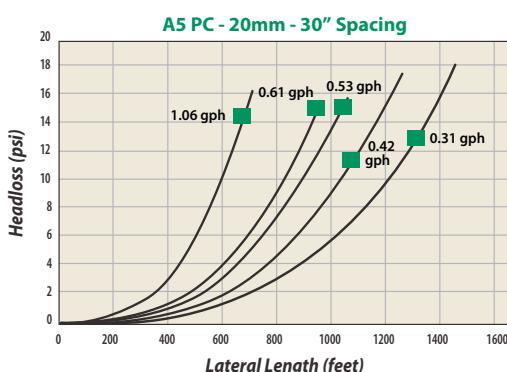
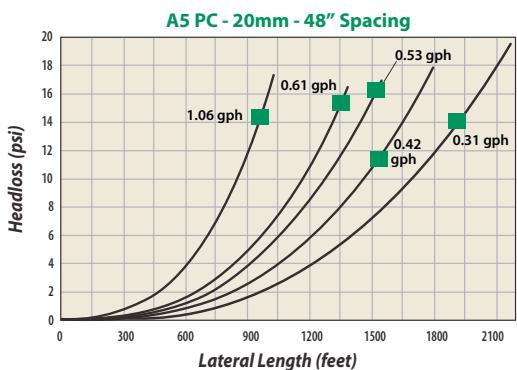
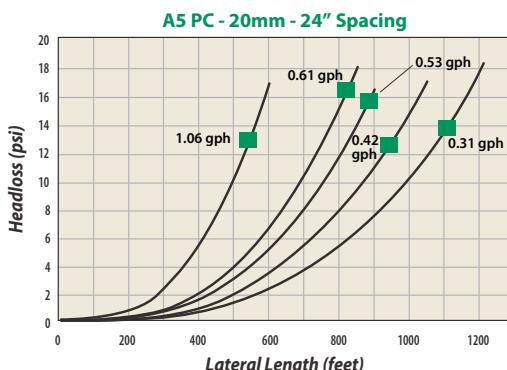
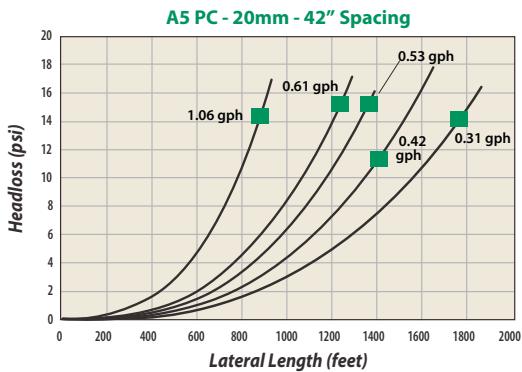
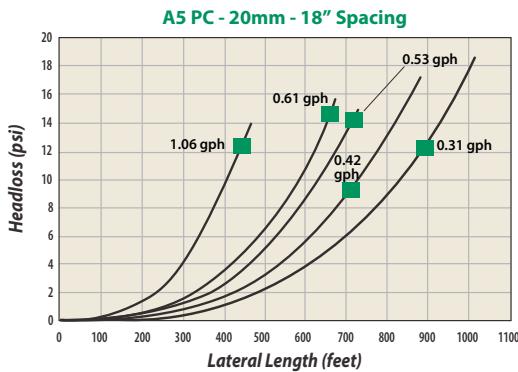
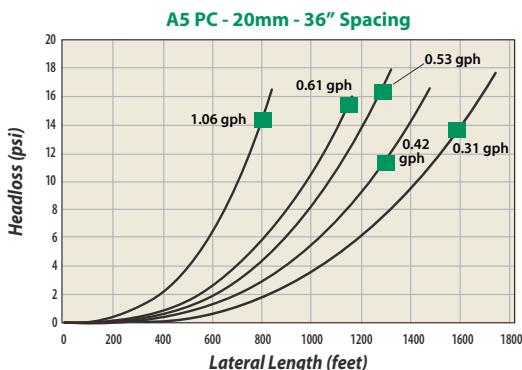
Calculating Lateral Length Inlet Pressure

$$\begin{aligned} &\text{Line End Pressure*} \\ &+ \text{Pressure Loss (from graph)} \\ &= \text{Inlet Pressure} \end{aligned}$$

*Minimum pressure at lateral length end = 7 psi.

Example:

$$\begin{array}{ll} \text{A5 PC 18" Spacing} & 7 \text{ psi (end pressure)} \\ 0.53 \text{ gph, 700' Run} & + 14 \text{ psi (from graph)} \\ \text{Minimum Inlet Pressure} & = 21 \text{ psi} \end{array}$$



A5 PC™ 20 mm Headloss and Lateral Length (Metric)

Calculating Lateral Length Inlet Pressure

Line End Pressure*

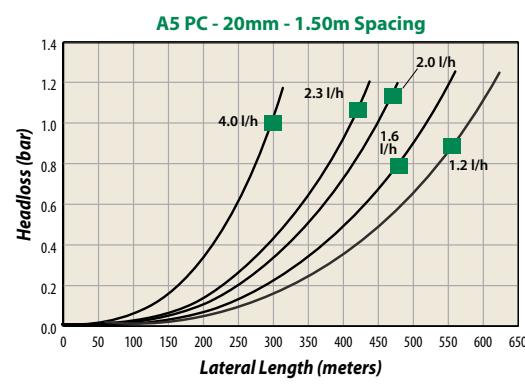
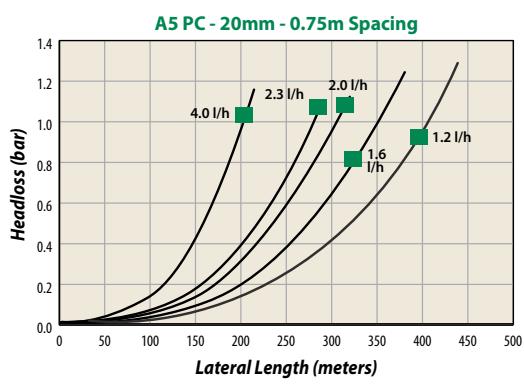
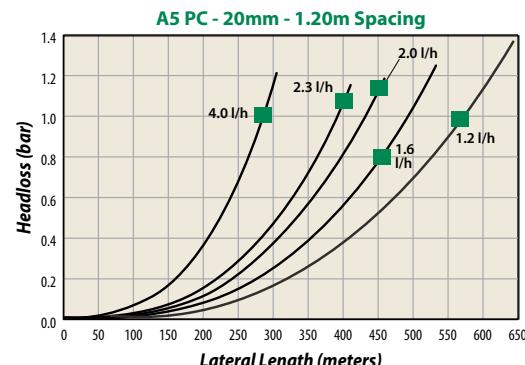
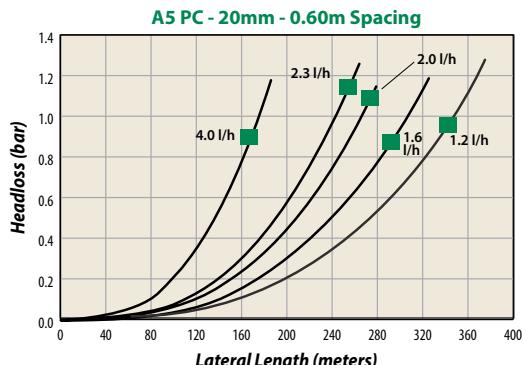
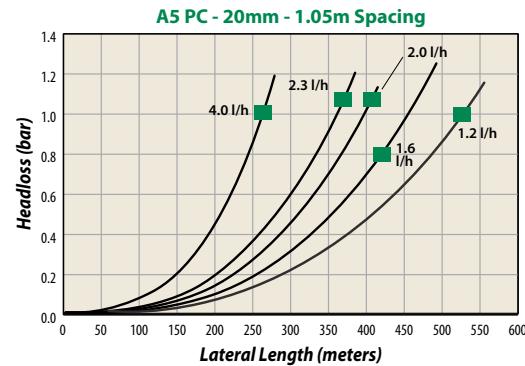
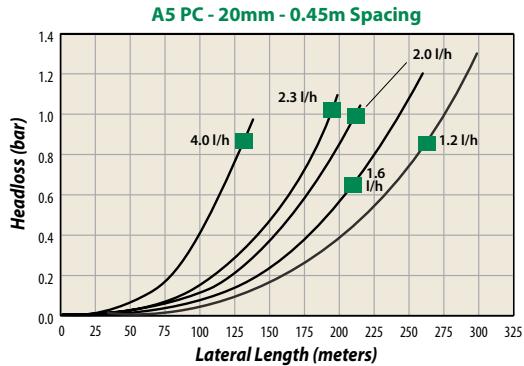
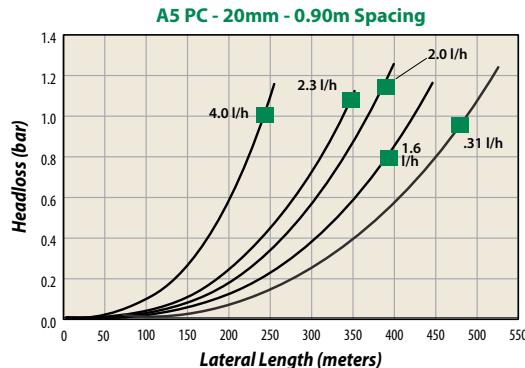
+ Pressure Loss (from graph)

= Inlet Pressure

*Minimum pressure at lateral length end = 0.48 bar.

Example:

$$\begin{array}{ll} \text{A5 PC 0.45m Spacing} & \text{0.48 bar (end pressure)} \\ 2.0 \text{ l/h, 213.4m (700') Run} & + 0.95 \text{ bar (from graph)} \\ \text{Minimum Inlet Pressure} & = 1.43 \text{ bar} \end{array}$$



PE Polyethylene Tubing

Features

Maximum Durability

Rain Bird PE Polyethylene Tubing is engineered and tested to stand up to harsh chemicals, UV radiation and damage that can be caused by farm equipment, resulting in years of worry-free performance.

Application Versatility

Rain Bird PE Polyethylene Tubing is ideally suited for all vineyard, orchard, greenhouse and nursery applications, including grapes, hops, stone fruits, almonds, walnuts, pecans and more. It can be placed on surface, subsurface or suspended and used with both online drippers and micro-sprays.



PE Polyethylene Tubing

Unmatched UV Protection

Manufactured from a unique, field-proven resin blend that holds up against destructive UV radiation. Resists cracking and splitting to deliver years of reliable operation.

Customer Satisfaction Policy

Rain Bird's best-in-industry Customer Satisfaction Policy provides 7 years of protection on product workmanship and 7 years on environmental stress cracking. This policy applies only to tubing with a wall thickness of 35 mil or greater.

How to Order PE Polyethylene Tubing

PE

-

820

-

930

-

10

Model

PE Polyethylene Tubing

Tube Inside Diameter

520 = 0.520" (13.2mm)
570 = 0.570" (14.5mm)
600 = 0.600" (15.2mm)
620 = 0.620" (15.7mm)
690 = 0.690" (17.5mm)
720 = 0.720" (18.3mm)
820 = 0.820" (20.8mm)
830 = 0.830" (21.1mm)
106 = 1.060" (26.9mm)

Tube Outside Diameter

620 = 0.620" (15.7mm)
660 = 0.660" (16.7mm)
700 = 0.700" (17.8mm)
710 = 0.710" (18.0mm)
790 = 0.790" (20.1mm)
820 = 0.820" (20.8mm)
930 = 0.930" (23.6mm)
940 = 0.940" (23.9mm)
118 = 1.184" (30.1mm)

Coil Length

50 = 500' (152.4m)
66 = 660' (201.2m)
10 = 1000' (304.8m)

See complete chart of available sizes on next page.

- To place an order in the United States call (800) HELLO AG (435-5624) or, use the Toll-FREE Fax Ordering number at (800) 843-4162.
- Customers outside the U.S. can contact the International Customer Service Department at (520) 878-2400 to place an order.

Technical Information

| Nominal Diameter | | Wall Thickness | Max. Working Pressure | Model Number* | | |
|------------------|------------------|------------------|-----------------------|---------------|------------|-------------|
| Inside | Outside | | | 500' Coil | 660' Coil | 1000' Coil |
| 0.520" (13.2 mm) | 0.620" (15.7 mm) | 0.050" (1.27 mm) | 66 psi (4.6 bar) | PE52062050 | | PE52062010 |
| 0.540" (13.7 mm) | 0.610" (15.5 mm) | 0.035" (0.89 mm) | 47 psi (3.2 bar) | | | A51635BLANK |
| 0.540" (13.7 mm) | 0.630" (16.0 mm) | 0.045" (1.14 mm) | 58 psi (4.0 bar) | | | A51645BLANK |
| 0.570" (14.5 mm) | 0.660" (16.7 mm) | 0.045" (1.14 mm) | 55 psi (3.8 bar) | PE57066050 | | PE57066010 |
| 0.600" (15.2 mm) | 0.700" (17.8 mm) | 0.050" (1.27 mm) | 58 psi (4.0 bar) | PE60070050 | | PE60070010 |
| 0.619" (15.7 mm) | 0.709" (18.0 mm) | 0.045" (1.14 mm) | 51 psi (3.5 bar) | | | A518BLANK |
| 0.620" (15.7 mm) | 0.710" (18.0 mm) | 0.045" (1.14 mm) | 51 psi (3.5 bar) | PE62071050 | | PE62071010 |
| 0.690" (17.5 mm) | 0.786" (20.0 mm) | 0.048" (1.22 mm) | 50 psi (3.4 bar) | | | A520BLANK |
| 0.690" (17.5 mm) | 0.790" (20.1 mm) | 0.050" (1.27 mm) | 51 psi (3.5 bar) | PE69079050 | | PE69079010 |
| 0.720" (18.3 mm) | 0.820" (20.8 mm) | 0.050" (1.27 mm) | 49 psi (3.4 bar) | PE72082050 | | PE72082010 |
| 0.820" (20.8 mm) | 0.930" (23.6 mm) | 0.055" (1.40 mm) | 47 psi (3.2 bar) | PE82093050 | | PE82093010 |
| 0.820" (20.8 mm) | 0.940" (23.9 mm) | 0.060" (1.52 mm) | 51 psi (3.5 bar) | PE82094050 | | PE82094010 |
| 0.830" (21.1 mm) | 0.940" (23.9 mm) | 0.055" (1.40 mm) | 46 psi (3.2 bar) | PE83094050 | | PE83094010 |
| 1.060" (26.9 mm) | 1.184" (30.1 mm) | 0.062" (1.57 mm) | 49 psi (3.4 bar) | PE10611850 | PE10611866 | |

*PE with vine clips are special order. Call for ordering information.



DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION

Distribution Tubing

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

Features

- Available in 2 different tube sizes, both compatible with standard fittings for those sizes
- MQT 1/4" distribution tubing ideal for use with Rain Bird® Micro-Quick™ Sprays and Micro Bird® Spinners
- 5mm distribution tubing ideal for use with LFX300 Low Flow Sprinkler
- Constructed of a durable, UV-resistant polyethylene blend
- MQT 1/4" tubing features self extracting coil for easy use, storage, and reduced waste



1,000 ft. Coil in Bucket
Model# MQTBKT1000
Item# Q10525

1,000 ft. Coil
Model# MQT1000
Item# Q10520

500 foot Coil
Model# LFXT550
Item# 18208750

| Models | | | | | | | |
|----------------------------|---------------|-------------------|-------------------|----------------|-------------------|-----------------|----------------|
| Nominal Diameter Inside | | Wall Thickness | Max. Pressure | Packaging | Length | Model Number | Item Number |
| 0.17" (4.3mm) | 0.25" (6.3mm) | 0.04" (1 mm) | 60 psi (4.14 bar) | Coil | 1,000 ft. (305 m) | MQT1000 | Q10520 |
| 0.17" (4.3mm) | 0.25" (6.3mm) | 0.04" (1 mm) | 60 psi (4.14 bar) | Coil in Bucket | 1,000 ft. (305 m) | MQTBKT1000 | Q10520 |
| 0.20" (5.1mm) | 0.30" (7.6mm) | 0.05" (1.3mm) | 60 psi (4.14 bar) | Coil | 500 ft. (152 m) | LFXT550 | 18208750 |

Online Emitters – PC Emitters

Rain Bird pressure compensating online emitters offer precise water application with a self-flushing action at an excellent value.

Features

- **Pressure Compensating**

- Provides superior flow from 15 to 50 psi (1 to 3.4 bar)
- Ideal for undulating terrain or systems with a large variation in pressure

- **Barbed Outlet - Standard**

- Use distribution tubing to direct water for maximum accuracy

- **Silicone Diaphragm**

- Best material for long-term exposure to ag chemicals
- Superior flush of debris when system is activated

- **Self-piercing Inlet**

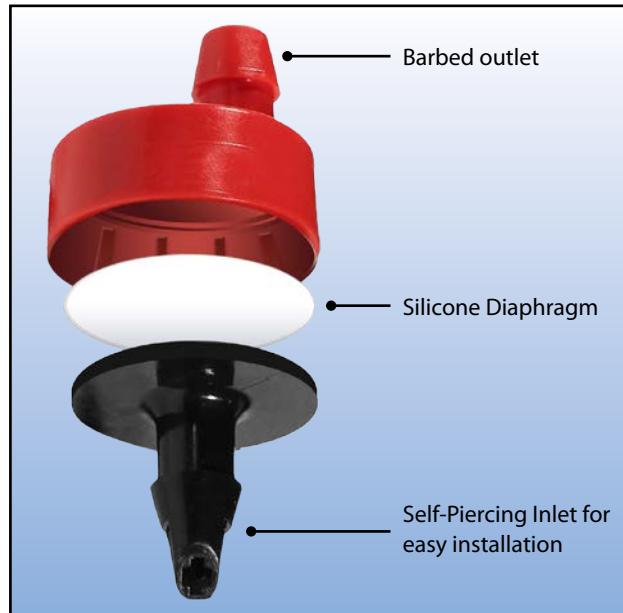
- One-step installation saves labor costs

- **Turbulent Flow Path**

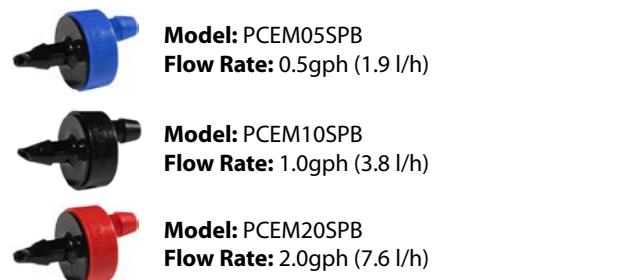
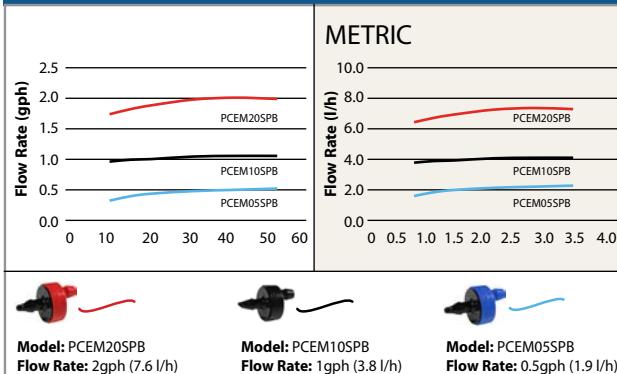
- Three dimensional geometry to keep grit in suspension as it moves through the emitter
- Emitter body and inlet made of materials to withstand chemical and UV degradation
- No squirting - puts water at the desired spot
- Color-coded outlet barb identifies flow rate

- **Economical**

- Compact design for low cost
- Energy savings



Online Emitter Performance



Models

| Model Number | Flow Rate (gph) | Flow Rate (l/h) | Inlet | Outlet | Part Number |
|--------------|-----------------|-----------------|---------------|--------------|-------------|
| PCEM05SPB | 0.5 | 1.9 | Self-Piercing | Barb (Blue) | A118410 |
| PCEM10SPB | 1.0 | 3.8 | Self-Piercing | Barb (Black) | A118411 |
| PCEM20SPB | 2.0 | 7.6 | Self-Piercing | Barb (Red) | A118412 |

Micro Spray and Spinner Irrigation

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION

Micro Spray and Spinner Irrigation



The Micro-Quick™ Spray system helps provide for a more efficient use of water, chemicals, and energy. The unique snap fit of the nozzles and deflectors reduce the time and expense needed for regular maintenance and to make modifications for a variety of growing conditions. Micro-Quick sprays are the only micro spray system available with a reversible deflector design featuring two-patterns to give more options for efficient irrigation.

Micro-Quick™ Sprays

The unique design of the Rain Bird® micro spray deflectors allow the system to grow along with the maturation of the crop. Micro-Quick™ Sprays help provide for a more efficient use of water, chemicals and energy.



Features

- No tools required for assembly, disassembly, or cleaning maintenance with easy snap fit nozzles and deflectors
- Interchangeable nozzles and deflectors to change flow rates or spray patterns as needed
- Color-coded nozzles for easy identification
- Less maintenance required with no moving parts
- Constructed with Ultraviolet (UV) stabilized resin to protect from sun damage and chemicals
- Order preassembled from the factory or as individual components for field customization

Applications

- For agriculture, greenhouse, and nursery use
- Operates in both an upright or inverted installation, making it ideal for nurseries, orchards, vineyards, vegetables, nut and citrus crops

Specifications

Operating pressure:

- 10 to 30 psi (0.69 to 2.07 bar)

Flow Range:

- 3.7 to 30.6 gph (13.8 to 115.7 l/h)

Wetted Diameter Range:

- 3 to 28 feet (0.91 to 8.5m)

Filtration:

- Recommendation varies by nozzle selection
- Ranges from 80 to 200 mesh (74 to 180 micron)

Distribution/Transfer tubing:

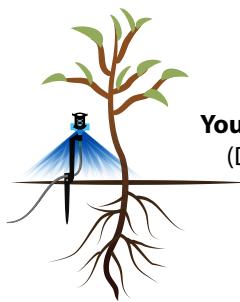
- Standard length in assembly: 36" (0.91 m), call for custom length options
- Tubing Size: OD: 0.25" (6.4 mm), ID: 0.17" (4.3 mm), wall thickness: 0.04" (1mm)

Packaging Data

- Assembled sprays can be ordered in increments of 1; case quantity of 400
- Nozzles and deflectors can be ordered in increments of 200 pieces; case quantity of nozzles is 3,000, case quantity of deflectors is 5,000
- Stakes can be ordered in increments of 1; case quantity of 130
- Transfer assemblies can be ordered in increments of 100; case quantity of 700

Dual Pattern Deflector to Optimize Water Application

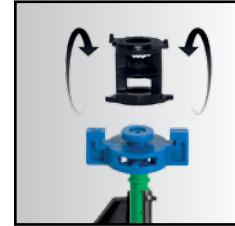
With no tools required, the convenient two-sided deflector can be flipped over to quickly change the pattern and size of the wetted area.



Young Tree: Pattern E
(Deflector Side 1)



Mature Tree: Pattern D
(Deflector Side 2)



How to Order Micro-Quick Sprays

MQ

36

BS

AA

05

MQ = Micro-Quick™ Spray

Tubing Length

36 = 36" (0.9m) Tubing

*Call for custom spacing

Stake

BS = Black Stake

Deflector

(Down x Up)
AA – A x A Pattern
AC – A x C Pattern
AE – A x E Pattern
BC – B x C Pattern
BE – B x E Pattern
DC – D x C Pattern
DE – D x E Pattern
EA – E x A Pattern
ED – E x D Pattern
EF – E x F Pattern
EG – E x G Pattern
FE – F x E Pattern
GE – G x E Pattern

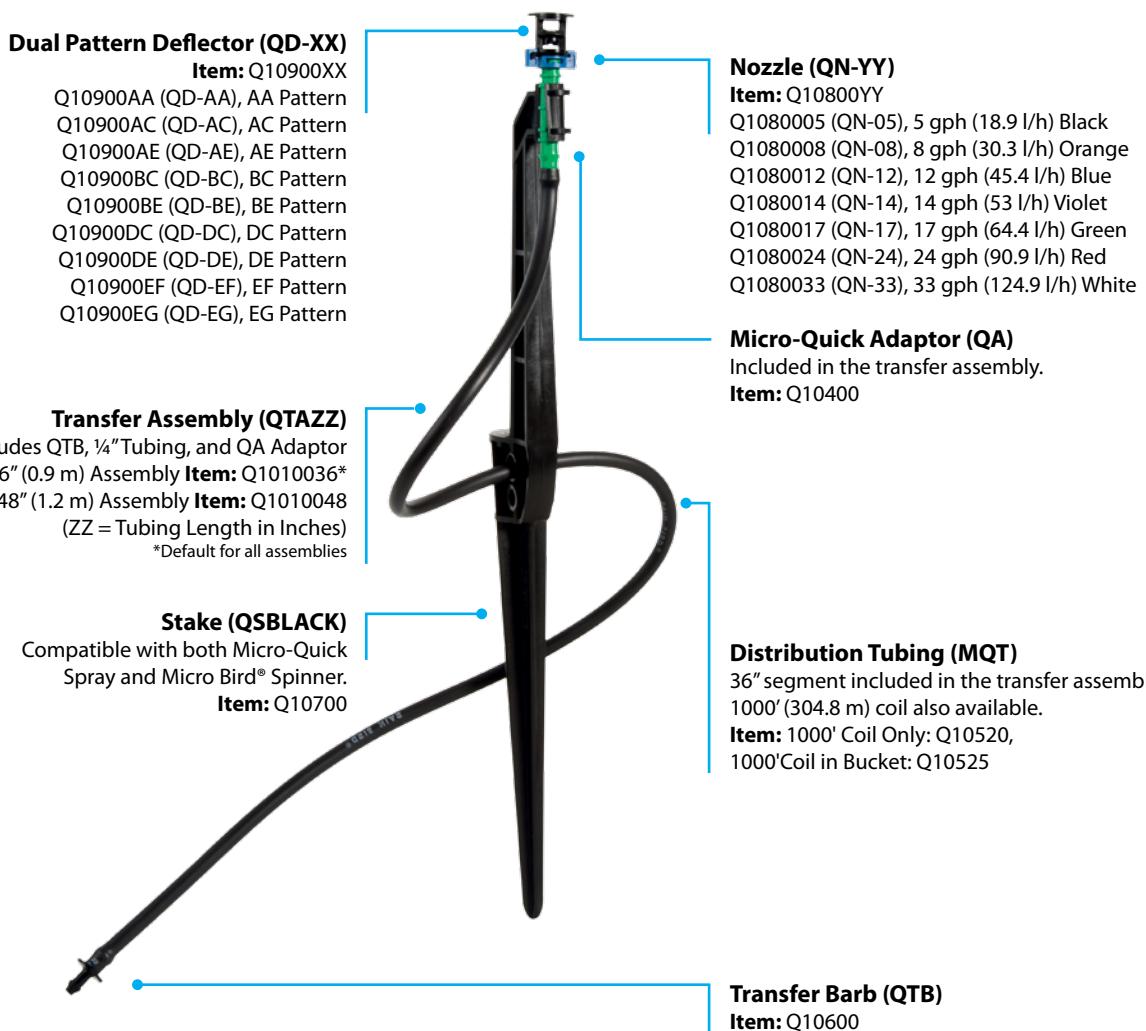
Nozzle Size

05 – 5 gph (18.9 l/h) Black
08 – 8 gph (30.3 l/h) Orange
12 – 12 gph (45.4 l/h) Blue
14 – 14 gph (53 l/h) Violet
17 – 17 gph (64.4 l/h) Green
24 – 24 gph (90.8 l/h) Red
33 – 33 gph (124.9 l/h) White

The Micro-Quick™ Sprays and Micro Bird® Spinner families can be ordered fully assembled or as individual components.

- To place an order in the United States call (800) HELLO AG (435-5624) or, use the Toll-FREE Fax Ordering number at (800) 843-4162.
- Customers outside the U.S. can contact the International Customer Service Department at (520) 878-2400 to place an order.

System Components



Other Available Parts



Conversion Adaptor
10-32 thread inlet x snap outlet to connect Rain Bird® Micro-Quick™ to non-Rain Bird transfer assemblies.
Model: QCA
Item: Q11200



Deflector Removal Tool
Model: QDT
Item: Q11400



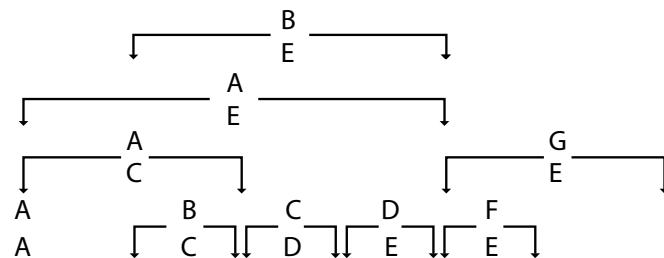
Nozzle Plug
Model: QNP
Item: Q1080099



Line/Goof Plug
Model: EMA-GP
Item: D24695

Performance Data

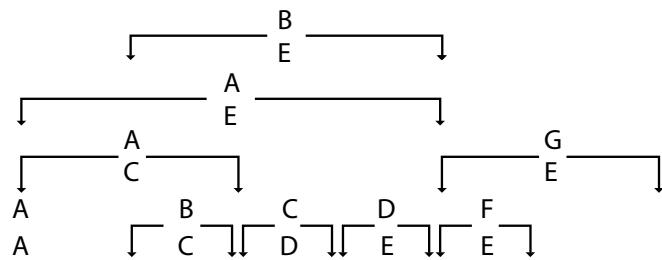
US Units



| Nozzle | Pressure (psi) | Pattern Flow (gph) | A 360° Star Bird™ Diameter (ft) | B Butterfly Length (ft) | C 120° Fan Spray Radius (ft) | D 360° 24 Stream Diameter (ft) | E Down Spray Diameter (ft) | F Notched Diameter (ft) | G Rectangular Length (ft) | G Width (ft) | Recommended Filtration (mesh/micron) | |
|---|----------------------------|--------------------------------------|---|--------------------------------------|--|--|--------------------------------------|----------------------------------|--------------------------------------|--------------------------------------|--|---------|
| QN-05 0.026"(0.66 mm) Black Q1080005 | 10 15 20 25 30 | 3.7 4.5 5.2 5.9 6.5 | 8.5 9.5 10.5 11.0 11.5 | 8.0 10.0 11.0 11.5 12.0 | 7.5 8.5 9.0 9.5 10.0 | 4.0 4.5 5.0 5.3 5.5 | 8.0 9.5 11.0 11.0 11.0 | 3.0 3.0 3.0 3.0 3.0 | 10.0 11.0 12.0 12.5 13.0 | 9.0 10.0 11.0 12.0 13.0 | 6.0 6.5 7.0 7.5 8.0 | 200/74 |
| QN-08 0.033"(0.84 mm) Orange Q1080008 | 10 15 20 25 30 | 5.6 6.9 8.0 9.2 10.0 | 13.0 13.5 14.0 14.5 15.0 | 10.0 11.5 12.5 12.5 13.0 | 7.5 8.5 9.5 9.5 10.0 | 4.5 5.0 5.5 6.0 6.5 | 9.5 11.0 12.5 13.5 14.5 | 3.0 3.0 3.0 3.0 3.0 | 12.5 13.5 14.0 14.0 14.5 | 12.0 13.5 15.0 16.5 18.0 | 7.0 8.0 9.0 10.0 10.5 | 170/93 |
| QN-12 0.038"(0.97 mm) Blue Q1080012 | 10 15 20 25 30 | 7.3 9.1 10.6 11.8 13.2 | 17.0 17.5 18.0 18.0 18.0 | 11.0 13.0 14.5 15.0 15.5 | 9.5 10.0 10.5 11.5 12.0 | 4.5 5.3 6.0 6.5 7.0 | 11.0 12.5 13.5 15.8 18.0 | 3.0 3.0 3.0 3.0 3.0 | 14.5 15.5 16.0 17.0 17.5 | 15.0 16.5 18.0 20.5 23.0 | 8.0 9.0 9.5 10.5 11.0 | 150/105 |
| QN-14 0.044"(1.12 mm) Violet Q1080014 | 10 15 20 25 30 | 9.7 11.8 13.7 15.5 17.2 | 19.0 20.0 20.5 20.5 21.0 | 13.0 16.0 17.0 18.0 19.0 | 10.0 11.5 12.0 12.5 13.0 | 5.0 5.5 6.0 6.0 7.0 | 12.0 14.0 15.5 18.0 20.5 | 3.0 3.0 3.0 3.0 3.0 | 16.5 17.5 18.5 19.5 20.5 | 15.5 17.5 19.5 22.0 24.0 | 8.5 9.5 10.0 11.0 11.5 | 130/118 |
| QN-17 0.048"(1.22 mm) Green Q1080017 | 10 15 20 25 30 | 10.7 13.3 15.5 17.4 19.1 | 21.0 22.0 22.5 23.0 23.5 | 15.0 15.0 19.0 20.0 21.0 | 10.5 12.0 12.5 13.0 13.5 | 6.0 6.0 6.0 6.5 7.0 | 13.0 15.0 17.0 20.0 23.0 | 3.0 3.0 3.0 3.0 3.0 | 17.0 18.5 20.0 21.5 23.0 | 16.0 18.5 20.5 23.0 25.0 | 9.0 10.0 10.5 11.0 12.0 | 120/125 |
| QN-24 0.057"(1.45 mm) Red Q1080024 | 10 15 20 25 30 | 14.2 17.3 20.1 22.4 26.0 | 23.0 25.5 28.0 28.0 28.0 | 16.0 18.0 19.5 21.0 22.0 | 11.5 12.5 13.0 13.5 14.0 | 6.5 7.0 7.5 7.5 7.5 | 15.0 17.0 19.0 24.0 25.0 | 3.0 3.0 3.0 3.0 3.0 | 18.0 20.0 21.5 23.5 25.0 | 18.5 20.5 22.0 24.0 25.5 | 11.0 12.0 13.0 13.5 14.0 | 100/150 |
| QN-33 0.068"(1.73 mm) White Q1080033 | 10 15 20 25 30 | 17.2 21.0 25.2 27.9 30.6 | 25.0 26.0 27.0 28.0 28.0 | 18.0 21.0 23.0 24.0 25.0 | 11.0 13.0 14.5 15.0 15.5 | 7.5 8.3 9.0 9.4 9.5 | 17.5 19.2 21.0 23.0 25.0 | 3.0 3.0 3.0 3.0 3.0 | 19.0 21.0 23.0 25.0 27.0 | 21.0 22.5 23.5 25.0 26.0 | 13.0 14.0 14.5 15.5 16.0 | 80/180 |

Performance Data

Metric Units



| Nozzle | Pressure (bar) | Pattern Flow (l/h) | A 360° Star Bird™ Diameter (m) | B Butterfly Length (m) Width (m) | C 120° Fan Spray Radius (m) | D 360° 24 Stream Diameter (m) | E Down Spray Diameter (m) | F Notched Diameter (m) | G Rectangular Length (m) Width (m) | Recommended Filtration (mesh/micron) |
|---|--------------------------------------|--|-----------------------------------|---|---------------------------------|----------------------------------|---------------------------------|---------------------------------|---|--------------------------------------|
| QN-05 0.026"(0.66 mm) Black Q1080005 | 0.75 1.00 1.50 1.75 2.00 | 13.8 17.2 19.8 22.3 24.5 | 2.6 2.9 3.3 3.4 3.5 | 2.4 2.3 3.0 2.6 3.3 2.7 3.5 2.9 3.7 3.0 | 1.2 1.4 1.6 1.6 1.7 | 2.4 2.9 3.2 3.4 3.4 | 0.9 0.9 0.9 0.9 0.9 | 3.0 3.3 3.6 3.8 4.0 | 2.7 1.8 3.0 2.0 3.3 2.1 3.6 2.3 4.0 2.4 | 200/74 |
| QN-08 0.033"(0.84 mm) Orange Q1080008 | 0.75 1.00 1.50 1.75 2.00 | 21.0 26.3 30.1 34.6 37.8 | 3.7 3.8 4.3 4.4 4.5 | 3.0 2.3 3.5 2.6 3.8 2.9 3.8 2.9 4.0 3.0 | 1.4 1.5 1.7 1.8 2.0 | 2.9 3.3 3.8 4.0 4.2 | 0.9 0.9 0.9 0.9 0.9 | 3.8 4.1 4.2 4.2 4.4 | 3.6 2.1 4.1 2.4 4.6 2.7 5.0 3.0 5.4 3.2 | 170/93 |
| QN-12 0.038"(0.97 mm) Blue Q1080012 | 0.75 1.00 1.50 1.75 2.00 | 27.6 34.5 40.0 44.7 49.9 | 5.1 5.3 5.4 5.5 5.5 | 3.4 2.9 4.0 3.0 4.4 3.2 4.6 3.5 4.7 3.7 | 1.4 1.6 1.9 2.0 2.1 | 3.3 3.7 4.0 4.8 5.3 | 0.9 0.9 0.9 0.9 0.9 | 4.4 4.7 4.9 5.1 5.3 | 4.6 2.4 5.0 2.7 5.4 2.9 6.2 3.2 7.0 3.3 | 150/105 |
| QN-14 0.044"(1.12 mm) Violet Q1080014 | 0.75 1.00 1.50 1.75 2.00 | 36.5 44.6 52.0 58.7 65.0 | 5.8 6.1 6.3 6.3 6.4 | 4.0 3.0 4.9 3.5 5.2 3.7 5.5 3.8 5.8 4.0 | 1.5 1.7 1.8 1.9 2.1 | 3.6 4.2 5.0 5.5 6.1 | 0.9 0.9 0.9 0.9 0.9 | 5.0 5.3 5.6 5.9 6.2 | 4.7 2.6 5.3 2.9 5.9 3.0 6.7 3.3 7.3 3.5 | 130/118 |
| QN-17 0.048"(1.22 mm) Green Q1080017 | 0.75 1.00 1.50 1.75 2.00 | 40.5 50.5 58.5 65.9 72.3 | 6.4 6.7 6.9 7.0 7.1 | 4.6 3.2 5.2 3.7 5.8 3.8 6.1 4.0 6.4 4.1 | 1.8 1.8 1.9 2.0 2.1 | 4.0 4.5 5.5 6.0 6.8 | 0.9 0.9 0.9 0.9 0.9 | 5.1 5.6 6.1 6.5 7.0 | 4.9 2.7 5.6 3.0 6.2 3.2 7.0 3.3 7.6 3.7 | 120/125 |
| QN-24 0.057"(1.45 mm) Red Q1080024 | 0.75 1.00 1.50 1.75 2.00 | 53.9 65.6 76.0 84.9 98.4 | 7.1 7.8 8.2 8.5 8.5 | 4.9 3.5 5.5 3.8 5.9 4.0 6.4 4.1 6.7 4.3 | 2.0 2.2 2.2 2.3 2.3 | 4.6 5.1 6.3 7.0 7.3 | 0.9 0.9 0.9 0.9 0.9 | 5.4 6.1 6.5 7.1 7.6 | 5.6 3.3 6.2 3.7 6.7 3.9 7.3 4.1 7.7 4.2 | 100/150 |
| QN-33 0.068"(1.73 mm) White Q1080033 | 0.75 1.00 1.50 1.75 2.00 | 65.1 79.5 95.3 105.7 115.7 | 7.6 7.9 8.3 8.4 8.5 | 5.5 3.4 6.4 4.0 7.0 4.4 7.3 4.6 7.6 4.7 | 2.3 2.5 2.8 2.9 2.9 | 5.4 5.8 6.6 7.1 7.5 | 0.9 0.9 0.9 0.9 0.9 | 5.8 6.4 7.0 7.6 8.2 | 6.4 3.9 6.9 4.2 7.1 4.4 7.6 4.7 7.9 4.9 | 80/180 |

Transfer Tube Assembly Pressure Loss Chart

| U.S. UNITS | | | METRIC UNITS | | |
|------------|---------------------|-----|--------------|---------------------|------|
| Flow (gph) | Pressure Loss (psi) | | Flow (l/h) | Pressure Loss (bar) | |
| | 24" | 36" | | 61cm | 91cm |
| 05 | 0.2 | 0.2 | 20 | 0.01 | 0.02 |
| 10 | 0.6 | 0.8 | 40 | 0.04 | 0.06 |
| 15 | 1.2 | 1.7 | 60 | 0.10 | 0.13 |
| 20 | 2.2 | 3.0 | 80 | 0.17 | 0.23 |
| 25 | 3.3 | 4.5 | 100 | 0.25 | 0.35 |
| 30 | 4.7 | 6.4 | 120 | 0.36 | 0.49 |
| 35 | 6.2 | 8.5 | 140 | 0.48 | 0.65 |

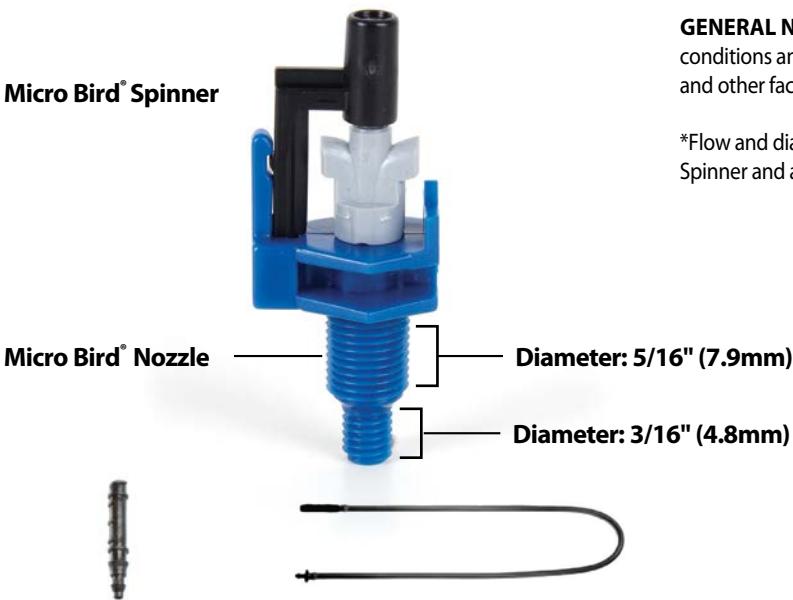
Micro Bird® Spinners

The Micro Bird® Spinner is a low-flow, micro-sprinkler ideal for applications of mature trees, greenhouses, nurseries, gardens, and landscapes.

Features

- "Tall Bridge" and superior plastic design reduces wear and stalling
- All components are protected by UV inhibitors and resist agricultural chemicals
- "Two-Step" thread configuration to accommodate both large and small sizes of distribution tubing
- Four color-coded nozzle bodies for easy identification
- 340° pattern design provides uniform coverage without wetting tree trunks
- Low 10° trajectory angle to fight wind drift
- Filtration mesh hole size should be approximately 10 times smaller than nozzle size

Micro Bird® Spinner



Micro Bird® Adaptor
(MBQA)
Q11000
Use with
Micro Bird® system

36" (0.9m) Transfer Assembly
(MBQTA36)
Q1110036
Includes QTB, TB,
MBQA adaptor

Performance Data*

| MODEL (Nominal Nozzle Diameter) | Filtration Requirements Mesh (Microns) | U.S. | | | Metric | | |
|--|---|---------------|---------------|-------------|---------------|---------------|------------|
| | | Pres (psi) | Flow (gph) | Dia (ft) | Pres (bar) | Flow (L/h) | Dia (m) |
| SP12-340 Blue (0.99mm/0.039") | 150 (105) | 15 | 10.1 | 18 | 1.0 | 38.0 | 5.6 |
| | | 20 | 11.6 | 19 | 1.5 | 45.0 | 6.0 |
| | | 25 | 12.9 | 20 | 2.0 | 53.0 | 6.4 |
| | | 30 | 14.1 | 21 | 2.5 | 58.0 | 6.6 |
| | | 35 | 15.3 | 21 | 3.0 | 65.0 | 6.8 |
| | | 40 | 16.3 | 22 | | | |
| SP16-340 Green (1.21mm/0.048") | 120 (125) | 15 | 15.1 | 20 | 1.0 | 57.0 | 6.0 |
| | | 20 | 17.4 | 21 | 1.5 | 67.0 | 6.6 |
| | | 25 | 19.4 | 22 | 2.0 | 80.2 | 7.0 |
| | | 30 | 21.2 | 23 | 2.5 | 86.3 | 7.2 |
| | | 35 | 22.8 | 23 | 3.0 | 95.0 | 7.2 |
| | | 40 | 24.2 | 24 | | | |
| SP24-340 Red (1.45mm/0.057") | 100 (150) | 15 | 20.9 | 21 | 1.0 | 79.0 | 6.4 |
| | | 20 | 24.1 | 23 | 1.5 | 95.0 | 7.0 |
| | | 25 | 26.9 | 24 | 2.0 | 110.0 | 7.4 |
| | | 30 | 29.3 | 24 | 2.5 | 118.0 | 7.6 |
| | | 30 | 31.4 | 25 | 3.0 | 130.0 | 7.8 |
| | | 40 | 33.3 | 25 | | | |
| SP30-340 Orange (1.73mm/0.068") | 80 (180) | 15 | 28.9 | 23 | 1.0 | 110.0 | 7.0 |
| | | 20 | 33.4 | 24 | 1.5 | 129.0 | 7.6 |
| | | 25 | 37.2 | 26 | 2.0 | 153.0 | 8.0 |
| | | 30 | 40.5 | 26 | 2.5 | 164.0 | 8.2 |
| | | 35 | 43.3 | 27 | 3.0 | 180.0 | 8.4 |
| | | 40 | 45.8 | 27 | | | |

GENERAL NOTE: Performance data is obtained under ideal test conditions and may be adversely affected by wind, hydraulic conditions, and other factors.

*Flow and diameter are based on pressure at the base of the Micro Bird® Spinner and a 6 in. (15cm) riser height.

Low Flow Irrigation

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

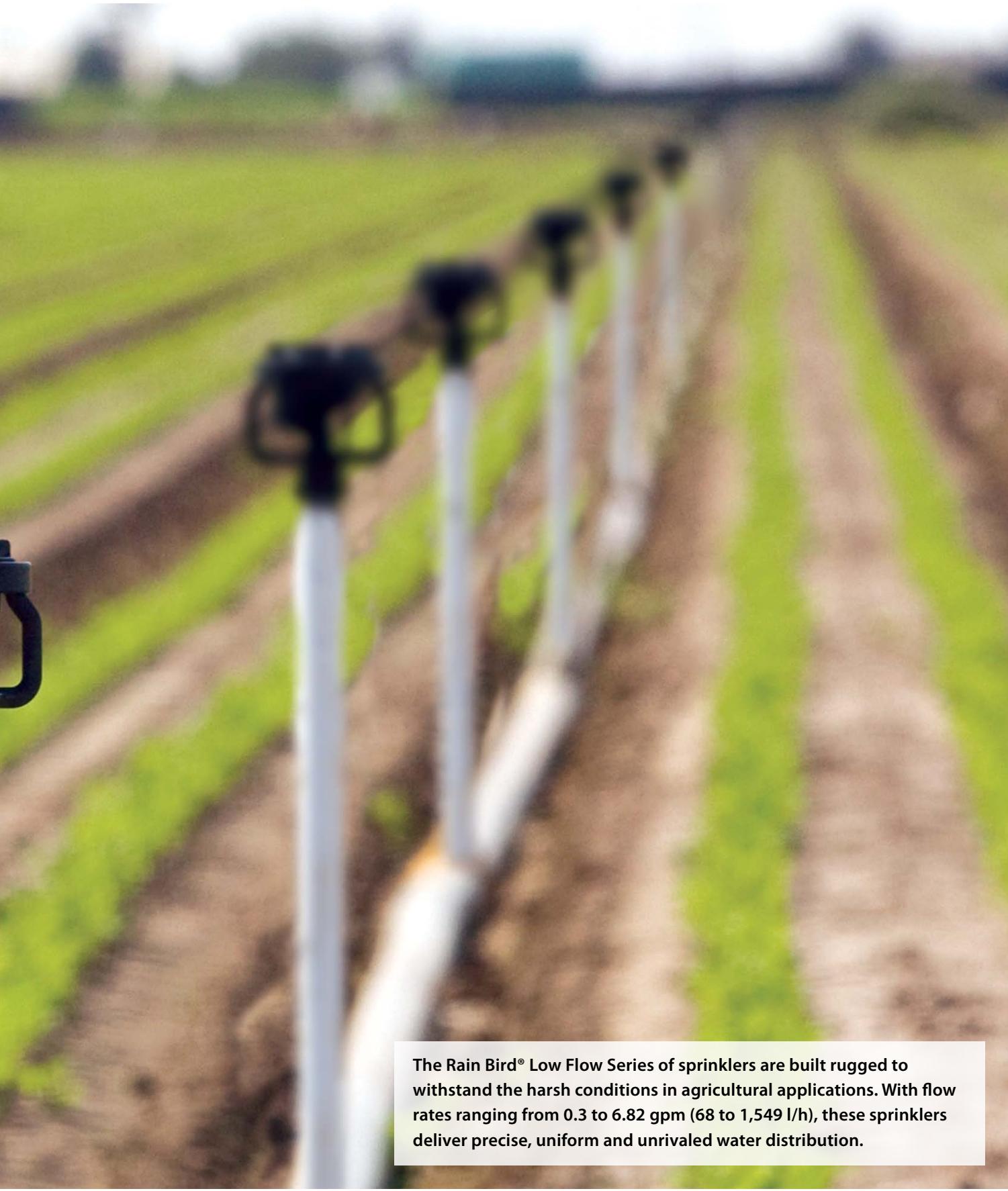
IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION



Low Flow Irrigation



The Rain Bird® Low Flow Series of sprinklers are built rugged to withstand the harsh conditions in agricultural applications. With flow rates ranging from 0.3 to 6.82 gpm (68 to 1,549 l/h), these sprinklers deliver precise, uniform and unrivaled water distribution.

LFX300 Low Flow Sprinkler

The Rain Bird® LFX Low Flow Sprinkler was designed and built with efficiency in mind. The small footprint of the low-volume LFX300 offers unparalleled operational flexibility with both interchangeable brake assemblies and nozzles. Featuring unmatched water distribution at all trajectories, the LFX300 is perfect for a wide variety of applications.



Features

- Simple three part sprinkler design includes body, nozzle, and brake assembly with attached deflector
- Each nozzle and brake assembly was designed to easily be changed with other sizes or outlet trajectories to maximize operational flexibility
- Easy in-field maintenance with simple snap-in-place nozzle and brake assembly including visual indicators to ensure correct positioning
- Engineered to provide superior distribution uniformity for low volume applications in either an under-tree or over-head configuration
- Constructed of engineered thermoplastic materials for durability and weather resistance
- Color coded nozzles and deflectors for easy identification
- Two flow control nozzle options for consistent flow of water

Applications

- For Agriculture, Greenhouse, and Nursery applications which require a small footprint or low-volume sprinkler
- Optimized for a wide variety of applications including orchard and field irrigation, environmental control, crop cooling, and dust control

Accessories

- Stake options include: steel, fiberglass, or preassembled PVC assemblies
- 5mm feedtube configurations include: coil for custom installation, precut pieces in 30" (76.2cm) or 42" (106.7cm) length with barb preinstalled (with or without stake adapter installed)
- Variety of adapters for increased application flexibility

Specifications

Operating Range:

- Pressure: 25 to 50 psi (1.72 to 3.45 bar)
- Flow rate: 0.28 to 0.73 gpm (62 to 161 l/h)
- Radius of throw: 18 to 25 feet (5.5 to 7.6 meters)

Sprinkler Body Options:

- 1/2" (13mm) NPT male pipe thread
- Female ACME thread

Deflector Trajectory Outlets:

- Deflector preassembled in brake assembly
- 9° Red
- 9° White
- 15° Orange

Nozzle Sizes:

- 40 Light Blue (0.040", 1.02mm)
- 45 Light Purple (0.045", 1.14mm)
- 50 Dark Green (0.050", 1.27mm)
- 55 Light Yellow (0.055", 1.40mm)
- 60 Light Red (0.060", 1.52mm)
- F1 0.35 gpm (79.5 l/h) Flow Control
- F2 0.50 gpm (113.6 l/h) Flow Control

Packaging Data

- Sprinkler can be ordered assembled from the factory or a la carte for ultimate field flexibility
- Assembled sprinklers can be ordered in increments of 1; case quantity of 400
- Sprinkler parts vary in order increment and case quantity;
Nozzles: Order increment of 200; case quantity of 1,600. Brake Assemblies: Order increment of 200; case quantity of 4,000. Bodies: Order increment of 1; case quantity of 400
- Accessories and mounting options vary in order increment; call for details

System Components



Brake Assembly with Deflector

9° Red, Item 1804999R

9° White Item 1804999W

15° Orange, Item 18049915O

Nozzle

Light Blue 40, 0.040" (1.01mm), Item 18116940B

Light Purple 45, 0.045" (1.14mm), Item 18116945P

Dark Green 50, 0.050" (1.27mm), Item 18116950G

Light Yellow 55, 0.055" (1.40mm), Item 18116955Y

Light Red 60, 0.060" (1.52mm), Item 18116960R

F1 0.35gpm (79.5 l/h) Flow Control, Item 18212535

F2 0.50gpm (113.6 l/h) Flow Control, Item 18212550

Body

Female ACME, Item 180502

1/2" (12.7mm) Male NPT, Item 180474

How to Order LFX300 Low Flow Sprinkler

LF03

N

09R

40

Core Family

LF03 - LFX300 Sprinkler

Body

A - Female ACME Thread
N - 1/2" Male NPT Thread

Deflector

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

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

LFX300 Performance Data

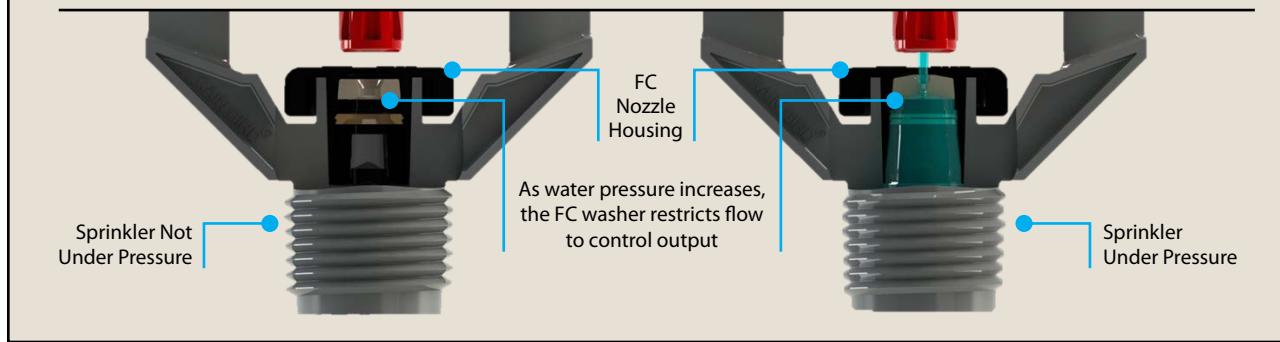
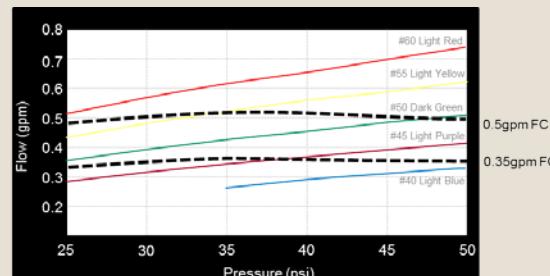
US Measurements

| MATRIX OF ASSEMBLIES | BRAKE ASSEMBLY WITH DEFLECTOR | NOZZLE | STREAM HEIGHT | FLOW RATES AT STANDARD PRESSURE | | | | | | MODEL NUMBER PART NUMBER | |
|-------------------------------|-------------------------------|--|-----------------------------|---|--------|--------|--------|--------|--------|-----------------------------|--------------|
| | | | | GALLONS PER MINUTE (gpm) Throw Radius (feet) | | | | | | | |
| | | | | 25 psi | 30 psi | 35 psi | 40 psi | 45 psi | 50 psi | | |
| 9 Degree Red 1804999R | | Light Blue #40 0.040" (1.016 mm) Item# 18116940B | 20-23 in (50.8-58.4cm) | — | — | 0.28 | 0.30 | 0.32 | 0.34 | LF03N09R40 | LF03A09R40 |
| | | Light Purple #45 0.045" (1.143 mm) Item# 18116945P | 19-25 in (48.3-63.5cm) | 0.29 | 0.32 | 0.35 | 0.37 | 0.39 | 0.41 | A85301D9R40 | A85303D9R40 |
| | | Dark Green #50 0.050" (1.270 mm) Item# 18116950G | 21-29 in (53.3-73.6cm) | 0.36 | 0.40 | 0.43 | 0.46 | 0.48 | 0.51 | LF03N09R50 | LF03A09R50 |
| | | FC1 0.35gpm (79.5 l/h) Item# 18212535 | 20-25 in (50.8 - 63.5cm) | 21 | 21 | 22 | 21 | 21 | 21 | A85301D9R50 | A85303D9R50 |
| 9 Degree White 1804999W | | Dark Green #50 0.050" (1.270 mm) Item# 18116950G | 20-24 in (50.8-61cm) | — | — | 0.43 | 0.46 | 0.48 | 0.51 | LF03N09W50 | LF03A09W50 |
| | | Light Yellow #55 0.055" (1.397 mm) Item# 18116955Y | 17-25 in (43.2-63.5cm) | 0.44 | 0.48 | 0.52 | 0.55 | 0.59 | 0.62 | A85301D9W55 | A85303D9W55 |
| | | Light Red #60 0.060" (1.524 mm) Item# 18116960R | 17-25 in (43.2-63.5cm) | 0.51 | 0.56 | 0.61 | 0.65 | 0.69 | 0.73 | LF03N09W60 | LF03A09W60 |
| | | FC2 0.50 gpm (113.6 l/h) Item# 18212550 | 20-25 in (50.8-63.5cm) | 23 | 24 | 24 | 25 | 25 | 25 | A85301D9W60 | A85303D9W60 |
| 15 Degree Orange 18049915O | | Dark Green #50 0.050" (1.270 mm) Item# 18116950G | 34-39 in (86.4-99.1cm) | — | — | 0.43 | 0.46 | 0.48 | 0.51 | LF03N15O50 | LF03A15O50 |
| | | Light Yellow #55 0.055" (1.397 mm) Item# 18116955Y | 36-42 in (91.4-106.7cm) | 0.44 | 0.48 | 0.52 | 0.55 | 0.59 | 0.62 | A85301D15O55 | A85303D15O55 |
| | | Light Red #60 0.060" (1.524 mm) Item# 18116960R | 33-41 in (83.8-104.1cm) | 0.51 | 0.56 | 0.61 | 0.65 | 0.69 | 0.73 | LF03N15O60 | LF03A15O60 |
| | | FC2 0.50 gpm (113.6 l/h) Item# 18212550 | 30-42 in (76.2-106.7 cm) | 24 | 25 | 25 | 25 | 24 | 24 | A85301D15O60 | A85303D15O60 |

Upgrade to Flow Control (FC) Nozzles to Regulate Application Across Pressure Range

LFX FC Nozzles control water flow over pressure variation to provide a consistent application rate along laterals or across terrain variation.

- Two flow rates available: 0.35gpm (79.5 l/h) or 0.50 gph (113.6 l/h)
- Operating range from 25 to 50 psi (1.72 to 3.45 bar)
- Flow control mechanism contained in nozzle housing; installs in standard body. No special tools required.



Metric Measurements

| MATRIX OF ASSEMBLIES (METRIC) | BRAKE ASSEMBLY WITH DEFLECTOR | NOZZLE | STREAM HEIGHT | FLOW RATES AT STANDARD PRESSURE | | | | | | | MODEL NUMBER PART NUMBER | | | |
|-------------------------------|--|--|------------------------------|---|-------|----------|---------|----------|-------|----------|-----------------------------|-------------|--|--|
| | | | | LITERS PER HOUR (l/h) Throw Radius (meter) | | | | | | | | | | |
| | | | | 1.75 bar | 2 bar | 2.25 bar | 2.5 bar | 2.75 bar | 3 bar | 3.25 bar | | | | |
| 9 Degree Red 1804999R |  | Light Blue #40 0.040" (1.016 mm) Item# 18116940B | 20-23 in (50.8-58.4cm) | — | — | 62 | 65 | 68 | 71 | 74 | LF03N09R40 | LF03A09R40 | | |
| | | Light Purple #45 0.045" (1.143 mm) Item# 18116945P | 19-25 in (48.3-63.5cm) | 67 | 72 | 76 | 80 | 84 | 88 | 91 | A85301D9R40 | A85303D9R40 | | |
| | | Dark Green #50 0.050" (1.270 mm) Item# 18116950G | 21-29 in (53.3-73.6cm) | 83 | 88 | 94 | 99 | 104 | 108 | 113 | LF03N09R45 | LF03A09R45 | | |
| | | FC1 0.35gpm (79.5 l/h) Item# 18212535 | 20-25 in (50.8 - 63.5 cm) | 6.4 | 6.4 | 6.7 | 6.7 | 6.4 | 6.4 | 6.4 | A85301D9R50 | A85303D9R50 | | |
| 9 Degree White 1804999W |  | Dark Green #50 0.050" (1.270 mm) Item# 18116950G | 20-24 in (50.8-61cm) | — | — | 94 | 99 | 104 | 108 | 113 | LF03N09W50 | LF03A09W50 | | |
| | | Light Yellow #55 0.055" (1.397 mm) Item# 18116955Y | 17-25 in (43.2-63.5cm) | 100 | 107 | 114 | 120 | 126 | 131 | 137 | A85301D9W55 | A85303D9W55 | | |
| | | Light Red #60 0.060" (1.524 mm) Item# 18116960R | 17-25 in (43.2-63.5cm) | 118 | 126 | 134 | 141 | 148 | 154 | 161 | LF03N09W60 | LF03A09W60 | | |
| | | FC2 0.50 gpm (113.6 l/h) Item# 18212550 | 20-25 in (50.8 - 63.5 cm) | 7.0 | 7.3 | 7.3 | 7.3 | 7.6 | 7.6 | 7.6 | A85301D9W60 | A85303D9W60 | | |
| 15 Degree Orange 18049915O |  | Dark Green #50 0.050" (1.270 mm) Item# 18116950G | 34-39 in (86.4-99.1cm) | — | — | 94 | 99 | 104 | 108 | 113 | LF03N15O50 | LF03A15O50 | | |
| | | Light Yellow #55 0.055" (1.397 mm) Item# 18116955Y | 36-42 in (91.4-106.7cm) | 100 | 107 | 114 | 120 | 126 | 131 | 137 | A85301D1550 | A85303D1550 | | |
| | | Light Red #60 0.060" (1.524 mm) Item# 18116960R | 33-41 in (83.8-104.1cm) | 118 | 126 | 134 | 141 | 148 | 154 | 161 | LF03N15O55 | LF03A15O55 | | |
| | | FC2 0.50 gpm (113.6 l/h) Item# 18212550 | 30-42 in (76.2-106.7 cm) | 7.3 | 7.6 | 7.6 | 7.6 | 7.6 | 7.3 | 7.3 | A85301D1555 | A85303D1555 | | |

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Filtration & Controls

Mounting Options and Accessories

A variety of mounting options are available to support the LFX300 Low Flow Sprinkler. These interchangeable, inexpensive, and simple to use mounting options are supported with installation tools. To add flexibility to this already flexible sprinkler, mounting accessories also feature Rain Bird® extruded 5mm feedtube in two pre-cut lengths or a full coil for complete customization.



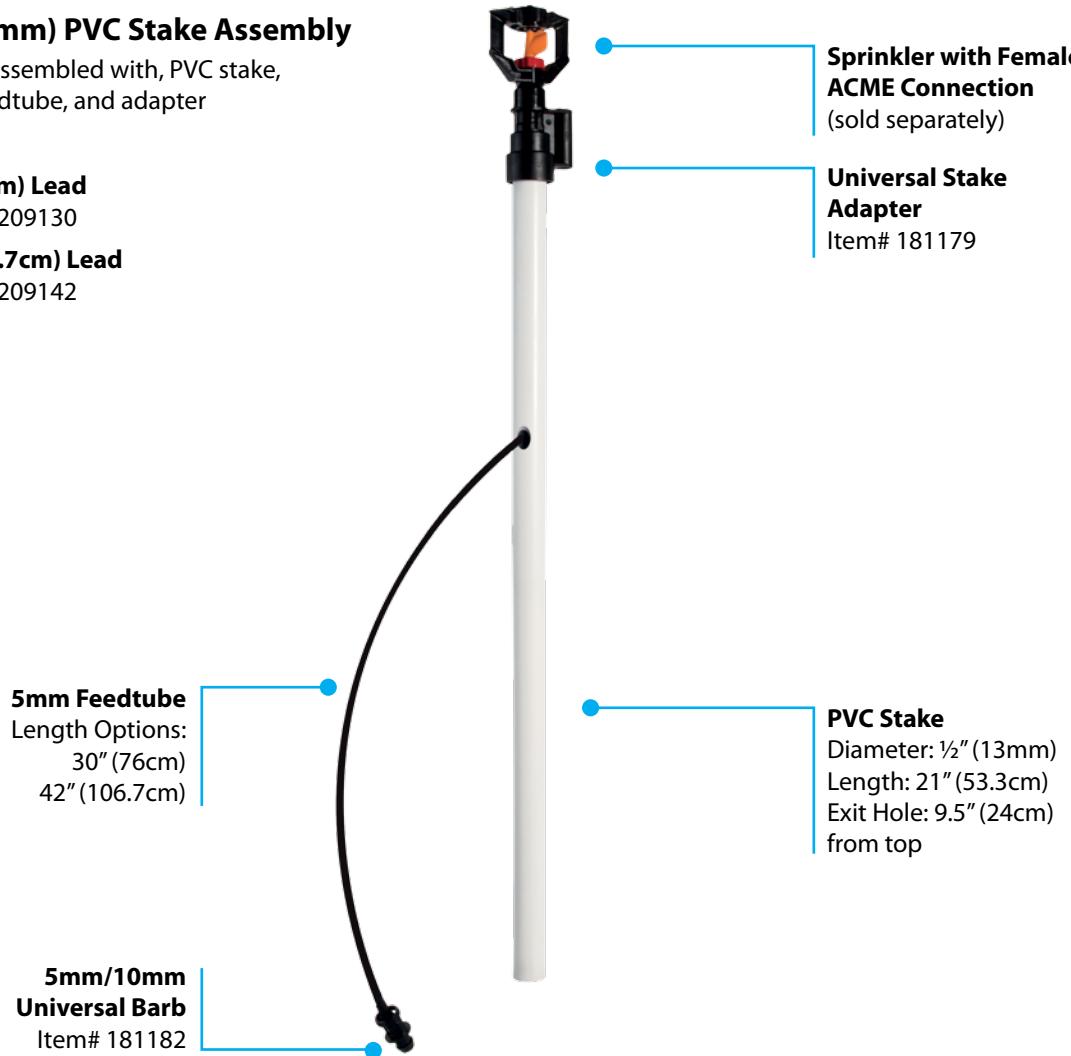
| Adapter Options | | |
|---|--|--|
| Universal Stake Adapter  Interchangeable stake adapter for use with small diameter (1/4" or 5/16") or large diameter (1/2" or 3/4") stakes. Item #181179 | ACME to Slip Adapter  Converts female ACME connection to slip fit; allows adapter to be glued to stake. ACME to 1/2" or 3/4". Grey. Item #181177 ACME to 20mm or 25mm. White. Item #181178 | ACME to 1/2" MNPT Adapter  Converts Female ACME connection to 1/2" MNPT. Item #181175 |

1/2" (13mm) PVC Stake Assembly

Factory assembled with, PVC stake, 5mm feedtube, and adapter

30" (76cm) Lead
Item# 18209130

42" (106.7cm) Lead
Item# 18209142

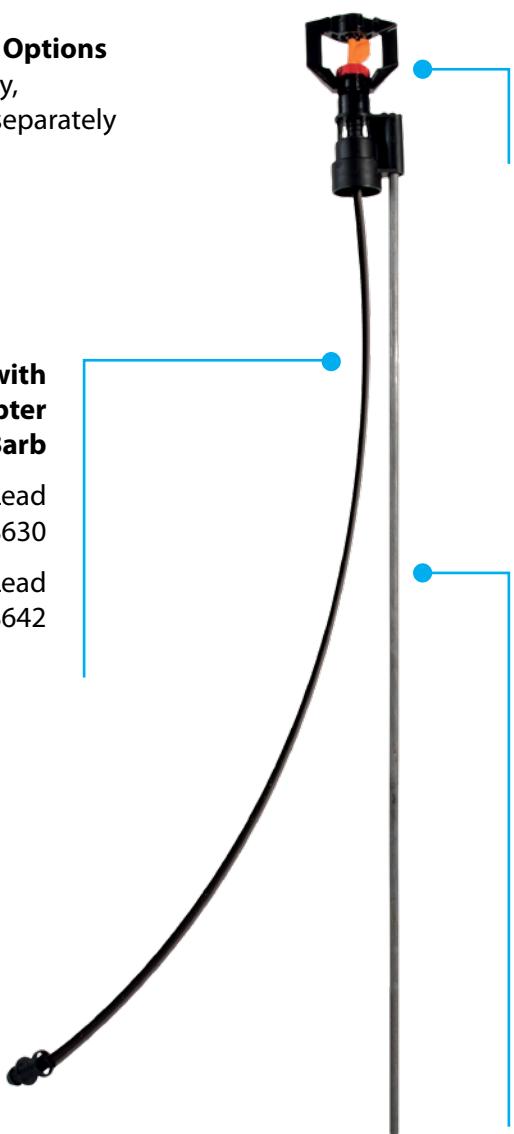


24" (61CM) Long Stake Options
Stake, feedtube assembly,
and sprinkler each sold separately

**Feedtube Assembly with
Universal Stake Adapter
and Universal Barb**

With 30" (76cm) Lead
Item# 18208630

With 42" (106.7cm) Lead
Item# 18208642



**Sprinkler with Female
ACME Connection**
(sold separately)

24" (61cm) Long Stake Options

Steel Stake

Diameter: 1/4" (6.4mm)
Item# 18208S124

Steel Stake

Diameter: 5/16" (8mm)
Item# 18208S224

Fiberglass Stake

Diameter: 1/4" (6.4mm)
Item# 18208F124

Fiberglass Stake

Diameter:
5/16" (8mm)
Item# 18208F224

| DISTRIBUTION TUBING OPTIONS | | |
|--|--|--|
| Precut Tube, Assembled with Universal Stake Adapter & Barb 30" (76cm) Lead Item# 18208630 42" (106.7cm) Lead Item# 18208642 | Precut Tube, Assembled with Universal Barb 30" (76cm) Lead Item# 18208530 42" (106.7cm) Lead Item# 18208542 | 5MM Distribution Tubing OD: 0.30" (7.62mm) ID: 0.20" (5.08mm) Wall Thickness: 0.05" (1.27mm) Coil Length: 500' (152.4m) Model# LFXT550 Item# 18208750 |

LF™ Series Sprinkler

The Rain Bird® LF™ Series Sprinkler is built to withstand the harsh conditions of a variety of agricultural applications. Leveraging the advantages of an impact sprinkler, the LF Series Sprinkler offers full circle operation with stream height flexibility to deliver precise, uniform, and unrivaled water distribution.



Features

- Weighted drive unit increases dwell time between stream interruptions to maximize throw distance
- Precision Jet (PJ) spoon directs water toward the field to prevent erosion at the riser base
- Deflector's made of engineered thermoplastic for wear resistance and dimensional stability and designed with break-up features to optimize uniformity
- Consistent performance in wide temperature range: ideal for cooling or frost protection
- Snap-in-place color-coded nozzles and deflectors for simple setup and easy field identification – no tools required
- Sprinkler can be purchased assembled or separately and comprised of four simple parts: drive unit, body (ACME or NPT), deflector, and nozzle. Anti-theft bodies sold separately.

Specifications

Operating pressure:

- 25 to 60 psi (1.7 to 4.2 bar)

Flow range:

- 0.77 to 6.82 gpm (175 to 1,549 l/h)

Throw Radius Range

- 22 to 50 ft. (6.6 to 15.2m)

Stream Height Range:

- 12 to 120 in. (30 to 305cm)

Sprinkler Body Options:

- ½" (13mm) NPT male pipe thread
- 23mm ACME male thread (requires special adapter)
- Anti-theft bodies available

Deflector Trajectory Outlets:

- Deflector trajectories vary by sprinkler model, see performance charts for details
- LF800 available with 6°, 9°, 12°, or 15°
- LF1200 available with 6°, 10°, 12°, 16°, 17°, or 21°
- LF2400 available with 10°, 13°, 15°, or 22°
- LF2400 Long Range available with 27° only

Nozzle Sizes:

- Nozzle sizes vary by sprinkler model, see performance charts for details
- LF800 includes nozzles ranging in size from 0.070 - 0.086" (1.79 - 2.18mm)
- LF1200 includes nozzles ranging in size from 0.078 - 0.117" (1.98 - 2.97mm)
- LF2400 includes nozzles ranging in size from 0.109 - 0.141" (2.76 - 3.57mm)
- LF2400 Long Range includes nozzles ranging in size from 0.141 - 0.172" (3.57 - 4.37mm)

Packaging Data

- Assembled sprinklers can be ordered in increments of 1; case quantity of 100
- Nozzles and deflectors can be ordered in increments of 200 pieces; case quantity of nozzles is 2,000, case quantity of deflectors is 1,600
- Unassembled Body and Drive Units can be ordered in increments of 1; case quantity of 100

Accessories

- Adapters available to convert ACME body to ½" or ¾" Male NPT
- Adapters available to convert ACME to female slip including: ½" and ¾" slip or 20mm and 25mm slip
- Edge guard, splash guard, and stream splitter available

How to Order LF Series Sprinkler

| Part number for Nozzle Only | Deflector | Nozzle | Stream Height (in.) | Flow Rate at Standard Pressures (gpm) Throw Radius at Standard Pressure (feet) | | | | | | | | Model Number Item Number | |
|---|---|---------------------------------------|---------------------------|---|--------|--------|--------|--------|--------|--------|--------|-----------------------------|-------------|
| | | | | 25 psi | 30 psi | 35 psi | 40 psi | 45 psi | 50 psi | 55 psi | 60 psi | NPT | ACME |
| Part number for Deflector Only 118285 |  | Orange (11809844) 44 Drill, 0.086" | 14-20 | | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | LF12N06P44 | LF12A06P44 |
| | | Purple (11809806) 3/32", 0.094" | | 1.27 | 1.39 | 1.5 | 1.61 | 1.71 | 1.8 | 1.89 | 1.98 | LF12N06P06 | LF12A06P06 |
| | | Yellow (11809838) 38 Drill, 0.102" | | 1.49 | 1.63 | 1.77 | 1.89 | 2.00 | 2.12 | | | LF12N06P38 | LF12A06P38 |
| | | | | 23 | 23 | 25 | 25 | 25 | 25 | 26 | 26 | A85001B0644 | A85003B0644 |
| | | | | 22 | 24 | 24 | 26 | 26 | 28 | 26 | 27 | A85001B0606 | A85003B0606 |
| | | | | 23 | 25 | 25 | 27 | 27 | 28 | | | A85001B0638 | A85003B0638 |

Empty boxes represent
application combinations not
recommended by Rain Bird.

Part number and model number for fully
assembled sprinkler with NPT body

Part number and model number for fully
assembled sprinkler with ACME body



The LF™ Series Sprinkler family can be ordered fully assembled or as individual components. Utilize Rain Bird's FREE Uniformity Pro™ software to make your sprinkler selections, or contact a Rain Bird dealer for assistance.

- To place an order in the United States call (800) HELLO AG (435-5624) or, use the Toll-FREE Fax Ordering number at (800) 843-4162.
- Customers outside the U.S. can contact the International Customer Service Department at (520) 878-2400 to place an order.

System Components



Optional: Anti-theft (AT)
body features screws to
add additional security
in the field.

| Part Numbers & Descriptions for Ordering Separately | | | | | |
|---|--|---|-------------------|-----------------|-------------|
| | | Description | Reccomended Usage | Order Increment | Item Number |
| DEFLECTOR | | 6 Degree Dk. Purple | LF1200 | 200 | 118285 |
| | | 6 Degree Yellow | LF800 | 200 | 118582 |
| | | 9 Degree Purple | LF800 | 200 | 118601 |
| | | 10 Degree Lime | LF2400 | 200 | 118599 |
| | | 10 Degree White | LF1200 | 200 | 118231 |
| | | 12 Degree Copper | LF800 | 200 | 118575 |
| | | 12 Degree Cyan Blue | LF1200 | 200 | 118262 |
| | | 12 Degree Pink | LF1200 | 200 | 118354 |
| | | 13 Degree Maroon | LF2400 | 200 | 118600 |
| | | 15 Degree Brown | LF800 | 200 | 118586 |
| | | 15 Degree Tangerine | LF2400 | 200 | 118583 |
| | | 16 Degree Red | LF1200 | 200 | 118240 |
| | | 17 Degree Powder Blue | LF1200 | 200 | 118226 |
| | | 21 Degree Olive Green | LF1200 | 200 | 118339 |
| | | 22 Degree Dark Green | LF2400 | 200 | 118585 |
| | | 27 Degree Black | LF2400 LR | 200 | 118602 |
| NOZZLE | | White, 50 Drill, 0.070", 1.79mm | LF800 | 200 | 11809850 |
| | | Blue, 5/64", 0.078", 1.98mm | LF800/LF1200 | 200 | 11809805 |
| | | Orange, 44 Drill, 0.086", 2.18mm | LF800/LF1200 | 200 | 11809844 |
| | | Purple, 3/32", 0.094", 2.39mm | LF1200 | 200 | 11809806 |
| | | Yellow, 38 Drill, 0.102", 2.59mm | LF1200 | 200 | 11809838 |
| | | Green, 7/64", 0.109", 2.76mm | LF1200/LF2400 | 200 | 11809807 |
| | | Tan, 30 Drill, 0.117", 2.97mm | LF1200/LF2400 | 200 | 11809830 |
| | | Red, 1/8", 0.125", 3.18mm | LF2400 | 200 | 11809808 |
| | | Black, 29 Drill, 0.133", 3.38mm | LF2400 | 200 | 11809829 |
| | | Silver, 9/64", 0.141", 3.57mm | LF2400/LF2400 LR | 200 | 11809809 |
| | | Brown, 5/32", 0.156", 3.97mm | LF2400 LR | 200 | 11809810 |
| | | Dark Grey, 11/64", 0.172", 4.37mm | LF2400 LR | 200 | 11809811 |
| DRIVE UNIT | | Drive Only | LF800 | 1 | 118347 |
| | | Drive Only | LF1200 | 1 | 118201 |
| | | Drive Only | LF2400/LF2400 LR | 1 | 118572 |
| | | Drive with NPT Body | LF800 | 1 | A85100 |
| | | Drive with NPT Body | LF1200 | 1 | A85000 |
| | | Drive with NPT Body | LF2400/LF2400 LR | 1 | A85200 |
| | | Drive with Anti-Theft ACME Body | LF800 | 1 | A85100AT |
| | | Drive with Anti-Theft ACME Body | LF1200 | 1 | A85000AT |
| | | Drive with Anti-Theft ACME Body | LF2400/LF2400 LR | 1 | A85200AT |
| BODIES | | NPT Body | Any | 1 | 118134 |
| | | ACME Body (adapter required) | Any | 1 | 118311 |
| | | ACME Anti-Theft Body (adapter required) | Any | 1 | 118310 |
| | | NPT Body with LF800 Drive | LF800 | 1 | A85100 |
| | | NPT Body with LF1200 Drive | LF1200 | 1 | A85000 |
| | | NPT Body with LF2400 Drive | LF2400/LF2400 LR | 1 | A85200 |
| | | Anti-Theft ACME Body with LF800 Drive | LF800 | 1 | A85100AT |
| | | Anti-Theft ACME Body with LF1200 Drive | LF1200 | 1 | A85000AT |
| | | Anti-Theft ACME Body with LF2400 Drive | LF2400/LF2400 LR | 1 | A85200AT |
| | | Anti-Theft Screwdriver | Anti-Theft Bodies | 1 | 118317 |

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Filtration & Controls

LF800 Performance Data

US Measurements

| Matrix of Assemblies | Deflector | Nozzle | Stream Height (in.) | Flow Rate at Standard Pressures (gpm) Throw Radius at Standard Pressure (feet) | | | | | | | | | Model Number Item Number | | |
|-------------------------------|-------------------------------------|--------|---------------------|---|--------|--------|--------|--------|--------|--------|--------|-------------|--------------------------|-------------|--|
| | | | | 25 psi | 30 psi | 35 psi | 40 psi | 45 psi | 50 psi | 55 psi | 60 psi | NPT | ACME | | |
| | | | | 0.77 | 0.83 | 0.89 | 0.96 | 1.01 | 1.06 | 1.11 | | | | | |
| 6 Degree Yellow 118582 | White (11809850) 50 Drill .070" | | 14-21 | | 0.77 | 0.83 | 0.89 | 0.96 | 1.01 | 1.06 | 1.11 | LF08N06Y50 | LF08A06Y50 | | |
| | | | | | 23 | 24 | 25 | 25 | 25 | 26 | 26 | A85101A0650 | A85103A0650 | | |
| | | | | | 0.88 | 0.97 | 1.05 | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | LF08N06Y05 | LF08A06Y05 | |
| | Blue (11809805) 5/64" .078" | | 12-21 | | 23 | 24 | 25 | 26 | 26 | 27 | 27 | 27 | A85101A0605 | A85103A0605 | |
| | | | | | 1.07 | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | LF08N06Y44 | LF08A06Y44 | |
| | | | | | 23 | 25 | 26 | 27 | 28 | 28 | 28 | 29 | A85101A0644 | A85103A0644 | |
| | Orange (11809844) 44 Drill .086" | | 14-22 | | 0.77 | 0.83 | 0.89 | 0.96 | 1.01 | 1.06 | 1.11 | LF08N06Y50 | LF08A06Y50 | | |
| | | | | | 23 | 25 | 26 | 27 | 28 | 28 | 28 | 29 | A85101A0644 | A85103A0644 | |
| | | | | | 0.88 | 0.97 | 1.05 | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | LF08N09P05 | LF08A09P05 | |
| 9 Degree Bright Purple 118601 | White (11809850) 50 Drill .070" | | 17-25 | | 0.77 | 0.83 | 0.89 | 0.96 | 1.01 | 1.06 | 1.11 | LF08N09P50 | LF08A09P50 | | |
| | | | | | 25 | 25 | 26 | 27 | 27 | 27 | 27 | A85101A0950 | A85103A0950 | | |
| | Blue (11809805) 5/64" .078" | | 15-28 | | 0.88 | 0.97 | 1.05 | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | LF08N09P05 | LF08A09P05 | |
| | | | | | 25 | 26 | 27 | 28 | 28 | 28 | 28 | 29 | A85101A0905 | A85103A0905 | |
| | 12 Degree Copper 118575 | | 26-35 | | 0.77 | 0.83 | 0.89 | 0.96 | 1.01 | 1.06 | 1.11 | LF08N12C50 | LF08A12C50 | | |
| | | | | | 27 | 28 | 29 | 29 | 29 | 29 | 29 | A85101A1250 | A85103A1250 | | |
| | | | | | 0.88 | 0.97 | 1.05 | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | LF08N12C05 | LF08A12C05 | |
| 15 Degree Brown 118586 | White (11809850) 50 Drill .070" | | 25-38 | | 0.88 | 0.97 | 1.05 | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | LF08N12C44 | LF08A12C44 | |
| | | | | | 27 | 28 | 30 | 30 | 31 | 31 | 31 | 31 | A85101A1205 | A85103A1205 | |
| | Orange (11809844) 44 Drill .086" | | 26-41 | | 1.07 | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | LF08N12C44 | LF08A12C44 | |
| | | | | | 28 | 30 | 31 | 32 | 32 | 33 | 33 | 34 | A85101A1244 | A85103A1244 | |
| | | | | | 0.77 | 0.83 | 0.89 | 0.96 | 1.01 | 1.06 | 1.11 | LF08N15B50 | LF08A15B50 | | |
| | Blue (11809805) 5/64" .078" | | 34-45 | | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 31 | A85101A1550 | A85103A1550 | |
| | | | | | 0.88 | 0.97 | 1.05 | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | LF08N15B05 | LF08A15B05 | |
| | | | | | 28 | 30 | 31 | 31 | 33 | 33 | 33 | 33 | A85101A1505 | A85103A1505 | |
| | Orange (11809844) 44 Drill .086" | | 32-50 | | 1.07 | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | LF08N15B44 | LF08A15B44 | |
| | | | | | 28 | 30 | 31 | 32 | 33 | 34 | 34 | 34 | A85101A1544 | A85103A1544 | |
| | | | | | 0.77 | 0.83 | 0.89 | 0.96 | 1.01 | 1.06 | 1.11 | LF08N15B50 | LF08A15B50 | | |

Sprinkler riser must be stable to achieve stated performance. Performance data based on 12 inch riser.
Standard ACME body listed. Call for Item Numbers with Anti-Theft ACME body.

Metric Measurements

| Matrix of Assemblies | Deflector | Nozzle | Stream Height (cm) | Flow Rate at Standard Pressures (l/h) Throw Radius at Standard Pressure (m) | | | | | | | | Model Number Item Number | |
|-------------------------------|--------------------------------------|--------|--------------------|--|---------|---------|---------|---------|---------|---------|---------|--------------------------|-------------|
| | | | | 1.7 bar | 2.1 bar | 2.4 bar | 2.8 bar | 3.1 bar | 3.5 bar | 3.8 bar | 4.2 bar | NPT | ACME |
| | | | | 175 | 188 | 202 | 218 | 229 | 241 | 252 | | LF08N06Y50 | LF08A06Y50 |
| 6 Degree Yellow 118582 | White (11809850) 50 Drill 1.79mm | | 35-53 | 175 | 188 | 202 | 218 | 229 | 241 | 252 | | LF08N06Y50 | LF08A06Y50 |
| | | | | 6.9 | 7.2 | 7.5 | 7.5 | 7.5 | 7.8 | 7.8 | | A85101A0650 | A85103A0650 |
| | | | | 200 | 220 | 238 | 254 | 270 | 284 | 298 | 311 | LF08N06Y05 | LF08A06Y05 |
| | Blue (11809805) 5/64" 1.98mm | | 30-53 | 6.9 | 7.2 | 7.5 | 7.8 | 8.1 | 8.1 | 8.1 | 8.1 | A85101A0605 | A85103A0605 |
| | | | | 243 | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF08N06Y44 | LF08A06Y44 |
| | | | | 6.9 | 7.5 | 7.8 | 8.1 | 8.4 | 8.4 | 8.4 | 8.7 | A85101A0644 | A85103A0644 |
| | Orange (11809844) 44 Drill 2.18mm | | 35-55 | 175 | 188 | 202 | 218 | 229 | 241 | 252 | | LF08N06Y50 | LF08A06Y50 |
| | | | | 7.5 | 7.8 | 8.1 | 8.4 | 8.4 | 8.4 | 8.4 | 8.7 | A85101A0644 | A85103A0644 |
| | | | | 200 | 220 | 238 | 254 | 270 | 284 | 298 | 311 | LF08N09P50 | LF08A09P50 |
| 9 Degree Bright Purple 118601 | White (11809850) 50 Drill 1.79mm | | 43-63 | 175 | 188 | 202 | 218 | 229 | 241 | 252 | | LF08N09P50 | LF08A09P50 |
| | | | | 7.5 | 7.5 | 7.8 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | A85101A0950 | A85103A0950 |
| | Blue (11809805) 5/64" 1.98mm | | 38-71 | 200 | 220 | 238 | 254 | 270 | 284 | 298 | 311 | LF08N09P05 | LF08A09P05 |
| | | | | 7.5 | 7.8 | 8.1 | 8.4 | 8.4 | 8.4 | 8.4 | 8.7 | A85101A0905 | A85103A0905 |
| 12 Degree Copper 118575 | White (11809850) 50 Drill 1.79mm | | 66-88 | 175 | 188 | 202 | 218 | 229 | 241 | 252 | | LF08N12C50 | LF08A12C50 |
| | | | | 8.1 | 8.4 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | A85101A1250 | A85103A1250 |
| | | | | 200 | 220 | 238 | 254 | 270 | 284 | 298 | 311 | LF08N12C05 | LF08A12C05 |
| | Blue (11809805) 5/64" 1.98mm | | 63-96 | 8.1 | 8.4 | 9.0 | 9.0 | 9.3 | 9.3 | 9.3 | 9.3 | A85101A1205 | A85103A1205 |
| | | | | 243 | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF08N12C44 | LF08A12C44 |
| | | | | 8.4 | 9.0 | 9.3 | 9.6 | 9.6 | 9.9 | 9.9 | 10.2 | A85101A1244 | A85103A1244 |
| 15 Degree Brown 118586 | White (11809850) 50 Drill 1.79mm | | 86-114 | 175 | 188 | 202 | 218 | 229 | 241 | 252 | | LF08N15B50 | LF08A15B50 |
| | | | | 8.4 | 8.7 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.3 | A85101A1550 | A85103A1550 |
| | Blue (11809805) 5/64" 1.98mm | | 81-127 | 200 | 220 | 238 | 254 | 270 | 284 | 298 | 311 | LF08N15B05 | LF08A15B05 |
| | | | | 8.4 | 9.0 | 9.3 | 9.3 | 9.9 | 9.9 | 9.9 | 9.9 | A85101A1505 | A85103A1505 |
| | Orange (11809844) 44 Drill 2.18mm | | 71-139 | 243 | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF08N15B44 | LF08A15B44 |

Sprinkler riser must be stable to achieve stated performance. Performance data based on 30cm riser.
Standard ACME body listed. Call for Item Numbers with Anti-Theft ACME body.

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Monitoring & Controls

Filtration

LF1200 Performance Data

US Measurements

| Matrix of Assemblies | Deflector | Nozzle | Stream Height (in.) | Flow Rate at Standard Pressures (gpm) | | | | | | | | Model Number Item Number | | |
|------------------------------|-----------|---------------------------------------|---------------------|--|--------|--------|--------|--------|--------|--------|--------|--------------------------|-------------|-------------|
| | | | | 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 Degree Dark Purple 118285 | | Orange (11809844) 44 Drill, 0.086" | 14-20 | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | | LF12N06P44 | LF12A06P44 | |
| | | Purple (11809806) 3/32", 0.094" | | 1.27 | 1.39 | 1.5 | 1.61 | 1.71 | 1.8 | 1.89 | 1.98 | | LF12N06P06 | LF12A06P06 |
| | | Yellow (11809838) 38 Drill, 0.102" | 16-21 | 1.49 | 1.63 | 1.77 | 1.89 | 2.00 | 2.12 | | | | LF12N06P38 | LF12A06P38 |
| 10 Degree White 118231 | | Blue (11809805) 5/64", 0.078" | 19-29 | 0.97 | 1.05 | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | | LF12N10W06 | LF12A10W06 | |
| | | Orange (11809844) 44 Drill, 0.086" | | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | | LF12N10W44 | LF12A10W44 | |
| | | Purple (11809806) 3/32", 0.094" | 22-34 | 1.27 | 1.39 | 1.5 | 1.61 | 1.71 | 1.8 | 1.89 | 1.98 | | LF12N10W06 | LF12A10W06 |
| 12 Degree Cyan Blue 118262 | | Yellow (11809838) 38 Drill, 0.102" | 24-34 | 1.49 | 1.63 | 1.77 | 1.89 | 2.00 | 2.12 | | | | LF12N10W38 | LF12A10W38 |
| | | Orange (11809844) 44 Drill, 0.086" | | 27 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | | A85001B1006 | A85003B1006 |
| | | Purple (11809806) 3/32", 0.094" | 28-40 | 1.27 | 1.39 | 1.5 | 1.61 | 1.71 | 1.8 | 1.89 | 1.98 | | A85001B1006 | A85003B1006 |
| 12 Degree Pink 118354 | | Yellow (11809838) 38 Drill, 0.102" | 30-43 | 1.49 | 1.63 | 1.77 | 1.89 | 2.00 | 2.12 | | | | LF12N12B38 | LF12A12B38 |
| | | Orange (11809807) 7/64", 0.109" | | 1.69 | 1.85 | 2.00 | 2.15 | | | | | | A85001B1244 | A85003B1244 |
| | | Tan (11809830) 30 Drill, 0.117" | 34-44 | 1.97 | 2.17 | 2.35 | 2.53 | | | | | | LF12N12P30 | LF12A12P30 |
| 16 Degree Red 118240 | | Tan (11809830) 30 Drill, 0.117" | 30-41 | 1.69 | 1.85 | 2.00 | 2.15 | | | | | | A85001B1207 | A85003B1207 |
| | | Orange (11809844) 44 Drill, 0.086" | | 30 | 32 | 33 | 34 | | | | | | A85001B1238 | A85003B1238 |
| | | Blue (11809805) 5/64", 0.078" | 46-59 | | | | | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | LF12N12P07 | LF12A12P07 |
| 17 Degree Powder Blue 118226 | | Orange (11809844) 44 Drill, 0.086" | 42-55 | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | | | LF12N16R44 | LF12A16R44 |
| | | Purple (11809806) 3/32", 0.094" | | 31 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | | A85001B1644 | A85003B1644 |
| | | Yellow (11809838) 38 Drill, 0.102" | 40-55 | 1.27 | 1.39 | 1.50 | 1.61 | 1.71 | 1.80 | 1.89 | 1.98 | | LF12N16R06 | LF12A16R06 |
| 21 Degree Olive Green 118339 | | Yellow (11809838) 38 Drill, 0.102" | 40-55 | 1.49 | 1.63 | 1.77 | 1.89 | 2.00 | 2.12 | | | | LF12N16R38 | LF12A16R38 |
| | | Orange (11809844) 44 Drill, 0.086" | | 30 | 31 | 33 | 33 | 33 | 33 | 32 | 32 | | A85001B1638 | A85003B1638 |
| | | Blue (11809805) 5/64", 0.078" | 41-55 | 0.97 | 1.05 | 1.12 | 1.19 | 1.25 | 1.31 | 1.37 | | | LF12N17B06 | LF12A17B06 |
| 21 Degree Olive Green 118339 | | Orange (11809844) 44 Drill, 0.086" | 49-60 | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | | | LF12N17B44 | LF12A17B44 |
| | | Purple (11809806) 3/32", 0.094" | | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 33 | | A85001B1744 | A85003B1744 |
| | | Yellow (11809838) 38 Drill, 0.102" | 42-61 | 1.27 | 1.39 | 1.50 | 1.61 | 1.71 | 1.80 | 1.89 | 1.98 | | LF12N17B06 | LF12A17B06 |
| 21 Degree Olive Green 118339 | | Yellow (11809838) 38 Drill, 0.102" | 43-61 | 1.49 | 1.63 | 1.77 | 1.89 | 2.00 | 2.12 | | | | LF12N17B38 | LF12A17B38 |
| | | Orange (11809844) 44 Drill, 0.086" | | 32 | 34 | 35 | 36 | 36 | 36 | 37 | 37 | | A85001B1738 | A85003B1738 |
| | | Purple (11809806) 3/32", 0.094" | 50-75 | 1.27 | 1.39 | 1.50 | 1.61 | 1.71 | 1.80 | 1.89 | 1.98 | | LF12N21G06 | LF12A21G06 |
| 21 Degree Olive Green 118339 | | Yellow (11809838) 38 Drill, 0.102" | 53-72 | 1.49 | 1.63 | 1.77 | 1.89 | 2.00 | 2.12 | | | | LF12N21G38 | LF12A21G38 |
| | | Orange (11809844) 44 Drill, 0.086" | 60-74 | 1.17 | 1.26 | 1.35 | 1.43 | 1.51 | 1.59 | 1.67 | | | A85001B2144 | A85003B2144 |
| | | Purple (11809806) 3/32", 0.094" | 34 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | | A85001B2106 | A85003B2106 |
| 21 Degree Olive Green 118339 | | Yellow (11809838) 38 Drill, 0.102" | 34 | 35 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | A85001B2138 | A85003B2138 |

Sprinkler riser must be stable to achieve stated performance. Performance data based on 12 inch riser.
Standard ACME body listed. Call for Item Numbers with Anti-Theft ACME body.

Metric Measurements

| Deflector | Nozzle | Stream Height (cm) | Flow Rate at Standard Pressures (l/h) Throw Radius at Standard Pressure (m) | | | | | | | | | Model Number Item Number | |
|--|---------------------------------------|--------------------|--|---------|---------|---------|---------|---------|---------|------------|-------------|--------------------------|------|
| | | | 1.7 bar | 2.1 bar | 2.4 bar | 2.8 bar | 3.1 bar | 3.5 bar | 3.8 bar | 4.2 bar | | NPT | ACME |
| | | | 266 | 286 | 307 | 325 | 343 | 361 | 379 | | | | |
| 6 Degree Dark Purple 118285 | Orange (11809844) 44 Drill, 0.086" | 35-50 | | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF12N06P44 | LF12A06P44 | |
| | Purple (11809806) 3/32", 0.094" | 35-53 | 288 | 316 | 341 | 366 | 388 | 409 | 429 | 450 | LF12N06P06 | LF12A06P06 | |
| | Yellow (11809838) 38 Drill, 0.102" | 40-53 | 338 | 370 | 402 | 429 | 454 | 481 | | | LF12N06P38 | LF12A06P38 | |
| 10 Degree White 118231 | Blue (11809805) 5/64", 0.078" | 48-73 | | 220 | 238 | 254 | 270 | 284 | 298 | 311 | LF12N10W06 | LF12A10W06 | |
| | Orange (11809844) 44 Drill, 0.086" | 60-83 | | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF12N10W44 | LF12A10W44 | |
| | Purple (11809806) 3/32", 0.094" | 55-86 | 288 | 316 | 341 | 366 | 388 | 409 | 429 | 450 | LF12N10W06 | LF12A10W06 | |
| | Yellow (11809838) 38 Drill, 0.102" | 60-86 | 338 | 370 | 402 | 429 | 454 | 481 | | | LF12N10W38 | LF12A10W38 | |
| 12 Degree Cyan Blue 118262 | Orange (11809844) 44 Drill, 0.086" | 71-99 | | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF12N12B44 | LF12A12B44 | |
| | Purple (11809806) 3/32", 0.094" | 71-101 | 288 | 316 | 341 | 366 | 388 | 409 | 429 | 450 | LF12N12B12 | LF12A12B12 | |
| | Yellow (11809838) 38 Drill, 0.102" | 76-109 | 338 | 370 | 402 | 429 | 454 | 481 | | | LF12N12B38 | LF12A12B38 | |
| 12 Degree Pink 118354 | Green (11809807) 7/64", 0.109" | 76-104 | 384 | 420 | 454 | 488 | | | | | LF12N12P07 | LF12A12P07 | |
| | Tan (11809830) 30 Drill, 0.117" | 86-111 | 447 | 493 | 534 | 575 | | | | | LF12N12P30 | LF12A12P30 | |
| | | | 9.0 | 9.6 | 9.9 | 10.2 | | | | | A85001B1207 | A85003B1207 | |
| 16 Degree Red 118240 | Blue (11809805) 5/64", 0.078" | 116-149 | | | 254 | 270 | 284 | 298 | 311 | LF12N16R06 | LF12A16R06 | | |
| | Orange (11809844) 44 Drill, 0.086" | 106-139 | | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF12N16R44 | LF12A16R44 | |
| | Purple (11809806) 3/32", 0.094" | 101-139 | 288 | 316 | 341 | 366 | 388 | 409 | 429 | 450 | LF12N16R06 | LF12A16R06 | |
| | Yellow (11809838) 38 Drill, 0.102" | 101-139 | 338 | 370 | 402 | 429 | 454 | 481 | | | LF12N16R38 | LF12A16R38 | |
| 17 Degree Powder Blue 118226 | Blue (11809805) 5/64", 0.078" | 104-139 | | 220 | 238 | 254 | 270 | 284 | 298 | 311 | LF12N17B06 | LF12A17B06 | |
| | Orange (11809844) 44 Drill, 0.086" | 124-152 | | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF12N17B44 | LF12A17B44 | |
| | Purple (11809806) 3/32", 0.094" | 106-154 | 288 | 316 | 341 | 366 | 388 | 409 | 429 | 450 | LF12N17B06 | LF12A17B06 | |
| | Yellow (11809838) 38 Drill, 0.102" | 109-154 | 338 | 370 | 402 | 429 | 454 | 481 | | | LF12N17B38 | LF12A17B38 | |
| 21 Degree Olive Green 118339 | Orange (11809844) 44 Drill, 0.086" | 152-187 | | 266 | 286 | 307 | 325 | 343 | 361 | 379 | LF12N21G44 | LF12A21G44 | |
| | Purple (11809806) 3/32", 0.094" | 127-190 | 288 | 316 | 341 | 366 | 388 | 409 | 429 | 450 | LF12N21G06 | LF12A21G06 | |
| | Yellow (11809838) 38 Drill, 0.102" | 134-182 | 338 | 370 | 402 | 429 | 454 | 481 | | | LF12N21G38 | LF12A21G38 | |

Sprinkler riser must be stable to achieve stated performance. Performance data based on 30cm riser.
Standard ACME body listed. Call for Item Numbers with Anti-Theft ACME body.

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Filtration & Controls

LF2400 Performance Data

US Measurements

| | Deflector | Nozzle | Stream Height (in.) | Flow Rate at Standard Pressures (gpm) Throw Radius at Standard Pressure (feet) | | | | | | | | | Model Number Item Number | |
|---|---------------------------------------|---|------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------------|------|
| | | | | 25 psi | 30 psi | 35 psi | 40 psi | 45 psi | 50 psi | 55 psi | 60 psi | | NPT | ACME |
|  | 10 Degree Lime 118599 | Green (11809807) 7/64", 0.109" | 20-38 | 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 | A85201C1007 | A85203C1007 | |
| | | Tan (11809830) 30 Drill, 0.117" | 24-38 | 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 | A85201C1030 | A85203C1030 | |
| | | Red (11809808) 1/8", 0.125" | 42-41 | 2.24 | 2.50 | 2.70 | 2.89 | 3.07 | 3.20 | 3.36 | 3.52 | LF24N10L08 | LF24A10L08 | |
|  | | | | 30 | 32 | 33 | 34 | 35 | 36 | 36 | 36 | A85201C1008 | A85203C1008 | |
| | 13 Degree Maroon 118600 | Black (11809829) 29 Drill, 0.133" | 30-48 | 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 | A85201C1029 | A85203C1029 | |
| | | Silver (11809809) 9/64", 0.141" | 32-44 | 2.93 | 3.27 | 3.53 | 3.78 | 4.02 | | | | LF24N10L09 | LF24A10L09 | |
| | | | | 32 | 34 | 35 | 36 | 37 | | | | A85201C1009 | A85203C1009 | |
|  | 15 Degree Tangerine 118583 | Green (11809807) 7/64", 0.109" | 28-50 | 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 | A85201C1307 | A85203C1307 | |
| | | Tan (11809830) 30 Drill, 0.117" | 30-48 | 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 | A85201C1330 | A85203C1330 | |
| | | Red (11809808) 1/8", 0.125" | 32-49 | 2.24 | 2.50 | 2.70 | 2.89 | 3.07 | 3.20 | 3.36 | 3.52 | LF24N13M08 | LF24A13M08 | |
|  | | | | 31 | 33 | 34 | 35 | 36 | 37 | 38 | 37 | A85201C1308 | A85203C1308 | |
| | 22 Degree Dark Green 118585 | Black (11809829) 29 Drill, 0.133" | 33-50 | 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 | A85201C1329 | A85203C1329 | |
| | | Silver (11809809) 9/64", 0.141" | 38-54 | 2.93 | 3.27 | 3.53 | 3.78 | 4.02 | | | | LF24N13M09 | LF24A13M09 | |
| | | | | 33 | 36 | 37 | 38 | 39 | | | | A85201C1309 | A85203C1309 | |

Sprinkler riser must be stable to achieve stated performance. Performance data based on 12 inch riser.
Standard ACME body listed. Call for Item Numbers with Anti-Theft ACME body.

Metric Measurements

| Matrix of Assemblies | Deflector | Nozzle | Stream Height (cm) | Flow Rate at Standard Pressures (l/h) Throw Radius at Standard Pressure (m) | | | | | | | | | Model Number Item Number | |
|-----------------------------|---|-----------------------------------|--------------------|--|---------|---------|---------|---------|---------|---------|---------|-------------|--------------------------|--|
| | | | | 1.7 bar | 2.1 bar | 2.4 bar | 2.8 bar | 3.1 bar | 3.5 bar | 3.8 bar | 4.2 bar | NPT | ACME | |
| 10 Degree Lime 118599 |  | Green (11809807) 7/64", 2.76mm | 50-96 | 384 | 420 | 454 | 488 | 518 | 556 | 584 | 613 | LF24N10L07 | LF24A10L07 | |
| | | | | 8.1 | 8.7 | 9.0 | 9.6 | 9.9 | 10.2 | 10.2 | 10.5 | A85201C1007 | A85203C1007 | |
| | | Tan (11809830) 30 Drill, 2.97mm | 60-96 | 447 | 493 | 534 | 575 | 606 | 638 | 670 | 702 | LF24N10L30 | LF24A10L30 | |
| | | | | 8.7 | 9.0 | 9.6 | 9.9 | 10.2 | 10.5 | 10.5 | 10.8 | A85201C1030 | A85203C1030 | |
| | | Red (11809808) 1/8", 3.18mm | 60-104 | 509 | 568 | 613 | 656 | 697 | 727 | 763 | 799 | LF24N10L08 | LF24A10L08 | |
| 13 Degree Maroon 118600 |  | Black (11809829) 29 Drill, 3.38mm | 76-121 | 572 | 638 | 688 | 738 | 784 | 818 | 852 | 881 | LF24N10L29 | LF24A10L29 | |
| | | | | 9.0 | 9.6 | 9.9 | 10.5 | 10.5 | 10.8 | 10.8 | 11.1 | A85201C1029 | A85203C1029 | |
| | | Silver (11809809) 9/64", 3.57mm | 81-111 | 665 | 743 | 802 | 858 | 913 | | | | LF24N10L09 | LF24A10L09 | |
| | | | | 9.6 | 10.2 | 10.5 | 10.8 | 11.1 | | | | A85201C1009 | A85203C1009 | |
| | | Green (11809807) 7/64", 2.76mm | 71-127 | 384 | 420 | 454 | 488 | 518 | 556 | 584 | 613 | LF24N13M07 | LF24A13M07 | |
| 15 Degree Tangerine 118583 |  | | | 9.0 | 9.3 | 9.6 | 9.9 | 10.2 | 10.2 | 10.5 | 10.5 | A85201C1307 | A85203C1307 | |
| | | Tan (11809830) 30 Drill, 2.97mm | 76-121 | 447 | 493 | 534 | 575 | 606 | 638 | 670 | 702 | LF24N13M30 | LF24A13M30 | |
| | | | | 9.3 | 9.6 | 9.9 | 10.8 | 10.5 | 10.8 | 10.8 | 10.8 | A85201C1330 | A85203C1330 | |
| | | Red (11809808) 1/8", 3.18mm | 81-127 | 509 | 568 | 613 | 656 | 697 | 727 | 763 | 799 | LF24N13M08 | LF24A13M08 | |
| | | | | 9.3 | 9.9 | 10.2 | 10.5 | 10.8 | 11.1 | 11.4 | 11.1 | A85201C1308 | A85203C1308 | |
| 22 Degree Dark Green 118585 |  | Black (11809829) 29 Drill, 3.38mm | 86-127 | 572 | 638 | 688 | 738 | 784 | 818 | 852 | 881 | LF24N13M29 | LF24A13M29 | |
| | | | | 9.6 | 9.9 | 10.2 | 10.5 | 10.8 | 10.8 | 11.1 | 11.1 | A85201C1329 | A85203C1329 | |
| | | Silver (11809809) 9/64", 3.57mm | 96-137 | 665 | 743 | 802 | 858 | 913 | | | | LF24N13M09 | LF24A13M09 | |
| | | | | 9.9 | 10.8 | 11.1 | 11.4 | 11.7 | | | | A85201C1309 | A85203C1309 | |
| | | Green (11809807) 7/64", 2.76mm | 81-127 | 384 | 420 | 454 | 488 | 518 | 556 | 584 | 613 | LF24N15T07 | LF24A15T07 | |
| 13 Degree Maroon 118600 |  | | | 9.3 | 9.6 | 9.9 | 10.2 | 10.5 | 10.5 | 10.8 | 11.1 | A85201C1507 | A85203C1507 | |
| | | Tan (11809830) 30 Drill, 2.97mm | 71-127 | 447 | 493 | 534 | 575 | 606 | 638 | 670 | 702 | LF24N15T30 | LF24A15T30 | |
| | | | | 9.0 | 9.9 | 10.2 | 10.8 | 10.8 | 10.8 | 11.1 | 11.1 | A85201C1530 | A85203C1530 | |
| | | Red (11809808) 1/8", 3.18mm | 88-137 | 509 | 568 | 613 | 656 | 697 | 727 | 763 | 799 | LF24N15T08 | LF24A15T08 | |
| | | | | 9.6 | 10.2 | 10.5 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | A85201C1508 | A85203C1508 | |
| 15 Degree Tangerine 118583 |  | Black (11809829) 29 Drill, 3.38mm | 101-170 | 572 | 638 | 688 | 738 | 784 | 818 | 852 | 881 | LF24N15T29 | LF24A15T29 | |
| | | | | 9.6 | 10.8 | 11.1 | 11.4 | 11.4 | 11.7 | 11.7 | 12.0 | A85201C1529 | A85203C1529 | |
| | | Silver (11809809) 9/64", 3.57mm | 106-144 | 665 | 743 | 802 | 858 | 913 | | | | LF24N15T09 | LF24A15T09 | |
| | | | | 10.2 | 10.8 | 11.1 | 11.7 | 11.7 | | | | A85201C1509 | A85203C1509 | |
| | | Green (11809807) 7/64", 2.76mm | 160-241 | 384 | 420 | 454 | 488 | 518 | 556 | 584 | 613 | LF24N22G07 | LF24A22G07 | |
| 22 Degree Dark Green 118585 |  | | | 10.8 | 11.4 | 11.4 | 11.4 | 11.7 | 11.7 | 11.7 | 11.7 | A85201C2207 | A85203C2207 | |
| | | Tan (11809830) 30 Drill, 2.97mm | 162-246 | 447 | 493 | 534 | 575 | 606 | 638 | 670 | 702 | LF24N22G30 | LF24A22G30 | |
| | | | | 10.8 | 11.4 | 11.7 | 12.0 | 12.3 | 12.3 | 12.3 | 12.6 | A85201C2230 | A85203C2230 | |
| | | Red (11809808) 1/8", 3.18mm | 170-254 | 509 | 568 | 613 | 656 | 697 | 727 | 763 | 799 | LF24N22G08 | LF24A22G08 | |
| | | | | 10.8 | 11.7 | 12.0 | 12.3 | 12.3 | 12.9 | 12.9 | 13.2 | A85201C2208 | A85203C2208 | |
| 22 Degree Dark Green 118585 |  | Black (11809829) 29 Drill, 3.38mm | 287-304 | 572 | 636 | 688 | 738 | 784 | 818 | 852 | 881 | LF24N22G29 | LF24A22G29 | |
| | | | | 11.4 | 12.3 | 12.6 | 12.6 | 12.9 | 13.2 | 13.2 | 13.2 | A85201C2229 | A85203C2229 | |
| | | Silver (11809809) 9/64", 3.57mm | 182-259 | 665 | 743 | 802 | 858 | 913 | | | | LF24N22G09 | LF24A22G09 | |
| | | | | 11.7 | 12.0 | 12.9 | 13.2 | 13.5 | | | | A85201C2209 | A85203C2209 | |

Sprinkler riser must be stable to achieve stated performance. Performance data based on 30 cm riser.
Standard ACME body listed. Call for Item Numbers with Anti-Theft ACME body.

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Filtration & Controls

LF2400 Long Range Performance Data

US Measurements

| Matrix of Assemblies | Deflector | Nozzle | Stream Height (inch) | Flow Rate at Standard Pressures (gpm) Throw Radius at Standard Pressure (feet) | | | | | | | | Model Number Item Number | | |
|---|---------------------------------------|-----------------------------------|----------------------|---|--------|--------|--------|--------|--------|--------|--------|--------------------------|-------------|-----------------------|
| | | | | 25 psi | 30 psi | 35 psi | 40 psi | 45 psi | 50 psi | 55 psi | 60 psi | ½" NPT | ACME | ACME w/¾" NPT ADAPTER |
| | | | | 2.93 | 3.27 | 3.53 | 3.78 | 4.02 | 4.23 | 4.43 | 4.63 | LF24N27B09 | LF24A27B09 | LF24A27B09A |
|  | 27 Degree Black 118602 | Silver (11809809) 9/64" 0.143" | 76-116 | 38 | 40 | 40 | 42 | 44 | 45 | 46 | 46 | A85201C2709 | A85203C2709 | A85223C2709 |
| | | Brown (11809810) 5/32" 0.156" | | 3.64 | 3.99 | 4.31 | 4.60 | 4.88 | 5.15 | 5.40 | 5.64 | LF24N27B10 | LF24A27B10 | LF24A27B10A |
| | Dark Grey (11809811) 11/64" 0.172" | 78-118 | | 38 | 40 | 42 | 44 | 44 | 45 | 46 | 46 | A85201C2710 | A85203C2710 | A85223C2710 |
| | | | | 4.40 | 4.82 | 5.21 | 5.57 | 5.91 | 6.23 | 6.53 | 6.82 | LF24N27B11 | LF24A27B11 | LF24A27B11A |
| | | | 80-120 | 40 | 42 | 44 | 47 | 48 | 48 | 48 | 50 | A85201C2711 | A85203C2711 | A85223C2711 |
| | | | | | | | | | | | | | | |

Metric Measurements

| Matrix of Assemblies | Deflector | Nozzle | Stream Height (cm) | Flow Rate at Standard Pressures (l/h) Throw Radius at Standard Pressure (m) | | | | | | | | Model Number Item Number | | |
|---|---------------------------------------|-----------------------------------|--------------------|--|---------|---------|---------|---------|---------|---------|---------|--------------------------|-------------|-----------------------|
| | | | | 1.7 bar | 2.1 bar | 2.4 bar | 2.8 bar | 3.1 bar | 3.5 bar | 3.8 bar | 4.2 bar | ½" NPT | ACME | ACME w/¾" NPT ADAPTER |
| | | | | 665 | 743 | 802 | 858 | 913 | 961 | 1,006 | 1,052 | LF24N27B09 | LF24A27B09 | LF24A27B09A |
|  | 27 Degree Black 118602 | Silver (11809809) 9/64" 3.63mm | 193-295 | 11.6 | 12.2 | 12.2 | 12.8 | 13.4 | 13.7 | 14.0 | 14.0 | A85201C2709 | A85203C2709 | A85223C2709 |
| | | Brown (11809810) 5/32" 3.97mm | | 827 | 906 | 979 | 1,045 | 1,108 | 1,170 | 1,226 | 1,281 | LF24N27B10 | LF24A27B10 | LF24A27B10A |
| | Dark Grey (11809811) 11/64" 4.37mm | 198-300 | | 11.6 | 12.2 | 12.8 | 13.4 | 13.4 | 13.7 | 14.0 | 14.0 | A85201C2710 | A85203C2710 | A85223C2710 |
| | | | | 999 | 1,095 | 1,183 | 1,265 | 1,265 | 1,415 | 1,483 | 1,549 | LF24N27B11 | LF24A27B11 | LF24A27B11A |
| | | | 203-305 | 12.2 | 12.8 | 13.4 | 14.3 | 14.6 | 14.6 | 14.6 | 15.2 | A85201C2711 | A85203C2711 | A85223C2711 |
| | | | | | | | | | | | | | | |

ACME x ¾" Male NPT Adapter - Part Number: 118297

ACME x 20mm x 25mm Female Slip Adapter - Part Number: 118294

Standard ACME body listed. Call for Item Numbers with Anti-Theft ACME body.

Adapters



ACME x Male NPT Adapter

- ACME x Male 1/2" NPT, Item 118292
- ACME x Male 3/4" NPT, Item 118297



ACME x Female Slip Adapter

- ACME x Male 1/2" x 3/4" Slip (Gray), Item 118328
- ACME x 20mm x 25mm Slip (White), Item 118294

Accessories



Edge Guard

Item 118366

The Rain Bird Edge Guard for LF Series Sprinklers provides you with the ability to keep water out of unwanted areas. Whether it is a road, a walkway, or just the end of the field, the Edge Guard takes the water from the sprinkler stream and redirects it back into the desired area.



Stream Splitter

Item 118259

Stream Splitters splits the water to avoid direct water streams into tree trunks, equipment, and general areas that do not need watering.



Splash Guard

Item 118337

The Splash Guard is an accessory for Rain Bird LF Series Sprinklers that allows you to change or clean nozzles without getting soaked while the sprinkler is in operation. It fits over the top of the sprinkler and directs water downwards while you remove and replace the sprinkler.

Impact Sprinklers

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION



Impact Sprinklers



Rain Bird introduced the first impact sprinkler to the market in 1933 (U.S. Patent 1,997,901), ushering in the era of efficient modern irrigation. Our commitment to offering superior impact sprinklers is as strong today as it was 80 years ago.

Impact Sprinklers

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 | | Nozzle Only | | XX = Nozzle Size | | | | |
|--|-----------------------------|------------------|---------|------------------|-----------|---------|---------|---|
| Sprinkler without Nozzle | A01619 | U.S. Standard | | 1/16" | 51 DRILL | 5/64" | 3/32" | 7/64" |
| | | Metric | 1.59 mm | 1.70mm | 1.98 mm | 2.38 mm | 2.78 mm | |
| Brass Straight Bore Nozzle | SBN-1 | 105780-XX | 04 | 51 | 05 | 06 | 07 | |
| Part number for Sprinkler Only | Part number for Nozzle Only | | | | | | | Available Nozzle Size. Use this number to complete the Nozzle part number |
| Part number for Assembled Sprinkler and Nozzle, when available | | | | | | | | |

| Option Guide (where available) | | | |
|--------------------------------|--------------------------------|-----|------------------------------------|
| FP | Full or Part Circle | W | Single Nozzle Spreader Plugged |
| BPJ | Brass Precision Jet | E | Straightening Vane |
| ADJ | Adjustable Nozzle | LPN | Low Pressure Nozzle |
| DA | Distance Control Flap | LAN | Low Angle Nozzle Spreader Nozzle |
| H | Superior H bearing | P | Anodized Aluminum Arm |
| TNT | PTFE, Nylon, PTFE Washer Stack | PM | Plastic Bearing |
| PJ | Precision Jet Spoon | V | Wedge |
| D | Durable Plastic Arm and Body | F | Frost/Chemically Resistant Washers |
| LA | Low Angle | M | Male Bearing |
| WS | Single Nozzle Body | | |

The majority of the brass impact sprinklers and nozzles are ordered separately.

Where applicable, part numbers for assembled combinations are provided.

- To place an order in the United States call **(800) HELLO AG (435-5624)** or, use the Toll-FREE Fax Ordering number at **(800) 843-4162**.
- Customers outside the U.S. can contact the International Customer Service Department at **(520) 878-2400** to place an order.

Quick Reference Selection Guide

| Full Circle Impact Sprinklers | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-------|----------|----------------------|-------------------|---------------|---------------|---------------|-------------|-----------------|--------------------------------|----|----|----|----|----|----|----|----|----|-------------------------------|----|----|----|----|----|-----|
| Model | Drive | Arm | Spreader Nozzle Port | Throw Radius (ft) | Bearing Size | | | | | Operating Pressure Range (psi) | | | | | | | | | | Must Order Nozzle Separately* | | | | | | |
| | | | | | 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 |
| 14VH | Wedge | Brass | No | 29-38 | • | | | | | | | | | | | | | | | | | | | | | |
| L20VH | Wedge | Brass | No | 23-32 | • | | | | | | | | | | | | | | | | | | | | ✓ | |
| L20H | Spoon | Brass | No | 28-35 | • | | | | | | | | | | | | | | | | | | | | ✓ | |
| M20VH-PM | Wedge | Brass | No | 25-35 | • | | | | | | | | | | | | | | | | | | | | ✓ | |
| 20JH | Spoon | Brass | No | 38-44 | • | | | | | | | | | | | | | | | | | | | | ✓ | |
| 29JH | Spoon | Brass | No | 35-46 | • | | | | | | | | | | | | | | | | | | | | ✓ | |
| L36H | Spoon | Plastic | Yes | 40-61 | | • | | | | | | | | | | | | | | | | | | | ✓ | |
| 48H | Spoon | Plastic | Yes | 42-60 | | • | | | | | | | | | | | | | | | | | | | | |
| 30H | Spoon | Brass | Yes | 40-56 | | • | | | | | | | | | | | | | | | | | | | ✓ | |
| 30WH | Spoon | Brass | Plugged | 40-56 | | • | | | | | | | | | | | | | | | | | | | ✓ | |
| 30PWH | Spoon | Aluminim | Plugged | 38-46 | | • | | | | | | | | | | | | | | | | | | | ✓ | |
| 14070H | Spoon | Brass | Yes | 44-71 | | • | | | | | | | | | | | | | | | | | | | ✓ | |
| 30FH | Spoon | Brass | Yes | 39-43 | | • | | | | | | | | | | | | | | | | | | | ✓ | |
| 30FWH | Spoon | Brass | Plugged | 39-43 | | • | | | | | | | | | | | | | | | | | | | ✓ | |
| 70CH | Spoon | Brass | Yes | 57-82 | | | • | | | | | | | | | | | | | | | | | | ✓ | |
| 70CHM | Spoon | Brass | Yes | 57-82 | | | | | • | | | | | | | | | | | | | | | | ✓ | |
| 80EHD | Spoon | Brass | No | 61-116 | | | | | | • | | | | | | | | | | | | | | | ✓ | |

| Full or Part Circle Impact Sprinklers | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---------------|---------|----------------------|-------------------|---------------|---------------|---------------|-------------|-----------------|--------------------------------|----|----|----|----|----|----|----|----|----|-------------------------------|----|----|----|----|----|
| Model | Drive | Arm | Spreader Nozzle Port | Throw Radius (ft) | Bearing Size | | | | | Operating Pressure Range (psi) | | | | | | | | | | Must Order Nozzle Separately* | | | | | |
| | | | | | 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 |
| 25BPJ-FP-ADJ | Precision Jet | Brass | No | 38-41 | • | | | | | | | | | | | | | | | | | | | | |
| 25BPJ-FP-ADJ-DA-TNT | Precision Jet | Brass | No | 38-41 | • | | | | | | | | | | | | | | | | | | | | |
| 2045PJ | Precision Jet | Plastic | No | 22-45 | • | | | | | | | | | | | | | | | | | | | | |
| 35A-TNT | Spoon | Brass | No | 38-41 | | • | | | | | | | | | | | | | | | | | | | |
| 35A-ADJ-TNT | Spoon | Brass | No | 42-51 | | • | | | | | | | | | | | | | | | | | | | |
| 35A-PJ-ADJ-TNT | Precision Jet | Brass | No | 42-51 | | • | | | | | | | | | | | | | | | | | | | |
| 35A-PJ-DA-TNT | Precision Jet | Brass | No | 42-51 | | • | | | | | | | | | | | | | | | | | | | |
| 65PJ | Precision Jet | Brass | No | 57-65 | | | • | | | | | | | | | | | | | | | | | | |
| 85EHD | Spoon | Brass | Yes | 61-116 | | | | | • | | | | | | | | | | | | | | | ✓ | |
| 85EHD-LA | Spoon | Brass | Yes | 48-108 | | | | | • | | | | | | | | | | | | | | | ✓ | |

14VH

1/2" 13mm Full Circle, Brass, Wedge Drive Impact Sprinkler

- Patented, self-flushing wedge drive
- Durable brass die-cast arm
- Stainless steel springs and fulcrum pin

Features

- Chemically resistant washers

Benefits

- Wedge drive runs on smaller nozzles and lower pressures
- Self-flushing design reduces wear from grit
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Brass
- Trajectory Angle: 23°
- Operating Range: 20-60 psi (1.4-4.1 bar)
- Flow Rate: .056-.268 gpm (0.14-0.61 m³/h)
- Radius: 29-38 ft. (9.0-11.70 meters)
- Nozzle Port: 1/8" Female NPT



| Straight Bore Nozzle (SBN-1) Performance* | | | | | | | | | | |
|---|------------------------------------|------|----------|------|-------|------|-------|------|-------|------|
| psi @ Nozzle | NOZZLE SIZE (Stream Height: 6 ft.) | | | | | | | | | |
| | 1/16" | | 51 DRILL | | 5/64" | | 3/32" | | 7/64" | |
| 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 |

| Straight Bore Nozzle (SBN-1) Performance* | | | | | | | | | | | METRIC | | | | |
|---|-----------------------------------|------|------|--------------------|------|------|-----------------|------|------|-----------------|----------|------------|--------------------------|------|------|
| bar @ Nozzle | NOZZLE SIZE (Stream Height: 1.8m) | | | | | | | | | | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | | |
| | 1.59 mm (1/16") | | | 1.70 mm (51 Drill) | | | 1.98 mm (5/64") | | | 2.38 mm (3/32") | | | 2.78 mm (7/64") | | |
| 1.4 | - | - | - | 8.8 | 0.04 | 0.13 | 9.3 | 0.05 | 0.18 | 10.1 | 0.07 | 0.26 | 10.4 | 0.10 | 0.35 |
| 1.5 | - | - | - | 8.9 | 0.04 | 0.14 | 9.3 | 0.05 | 0.19 | 10.1 | 0.07 | 0.27 | 10.5 | 0.10 | 0.37 |
| 2.0 | 9.0 | 0.04 | 0.14 | 9.1 | 0.04 | 0.16 | 9.6 | 0.06 | 0.22 | 10.3 | 0.09 | 0.31 | 10.8 | 0.12 | 0.42 |
| 2.5 | 9.2 | 0.04 | 0.15 | 9.3 | 0.05 | 0.18 | 9.8 | 0.07 | 0.24 | 10.6 | 0.10 | 0.35 | 11.0 | 0.13 | 0.47 |
| 3.0 | 9.4 | 0.05 | 0.17 | 9.6 | 0.05 | 0.19 | 10.1 | 0.07 | 0.27 | 10.8 | 0.11 | 0.38 | 11.4 | 0.14 | 0.52 |
| 3.5 | 9.6 | 0.05 | 0.18 | 9.8 | 0.06 | 0.21 | 10.4 | 0.08 | 0.29 | 11.0 | 0.11 | 0.41 | 11.6 | 0.16 | 0.56 |
| 4.0 | 9.8 | 0.05 | 0.20 | 10.0 | 0.06 | 0.22 | 10.5 | 0.08 | 0.31 | 11.2 | 0.12 | 0.44 | 11.7 | 0.17 | 0.60 |
| 4.1 | 9.9 | 0.06 | 0.20 | 10.1 | 0.06 | 0.23 | 10.5 | 0.09 | 0.31 | 11.3 | 0.12 | 0.45 | 11.7 | 0.17 | 0.61 |

* Available without Nozzle or Assembled with 5/64" (05) Straight Bore Nozzle.
All other Nozzles must be purchased separately.
See Chart below.

Part Numbers and Ordering Information

| Sprinkler Only | |
|---|-----------------|
| Sprinkler without Nozzle | A01619 |
| Assembled Sprinkler Factory Combination | |
| 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" | 1/8" |
| Metric | | | 1.59 mm | 1.70mm | 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 | - |

Bold nozzle size numbers denote the most common nozzle choices.

L20VH

1/2" 13mm Full Circle, Brass, Wedge Drive Impact Sprinkler

- Patented, self-flushing wedge drive
- Durable brass die-cast arm
- Stainless steel springs and fulcrum pin

Features

- Chemically resistant washers

Benefits

- Wedge drive runs on smaller nozzles and lower pressures
- Self-flushing design reduces wear from grit
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Brass
- Trajectory Angle: 10°
- Operating Range: 25-50 psi (1.7-3.5 bar)
- Flow Rate: 0.56-2.45 gpm (0.13-0.56 m³/h)
- Radius: 23-32 ft. (7.2-9.6 meters)
- Nozzle Port: 1/8" Female NPT



Straight Bore Nozzle (SBN-1) Performance*

| psi @ Nozzle | NOZZLE SIZE (Stream Height: 2.5 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.) |
| 25 | 23 0.56 | 24 0.65 | 25 0.88 | 26 1.27 | 27 1.73 | |
| 30 | 24 0.62 | 25 0.71 | 26 0.97 | 27 1.39 | 28 1.90 | |
| 35 | 25 0.66 | 26 0.77 | 27 1.05 | 28 1.50 | 29 2.05 | |
| 40 | 25 0.72 | 26 0.83 | 27 1.12 | 29 1.61 | 30 2.19 | |
| 45 | 26 0.75 | 27 0.87 | 28 1.19 | 30 1.71 | 31 2.32 | |
| 50 | 27 0.80 | 28 0.92 | 29 1.25 | 31 1.80 | 32 2.45 | |

Straight Bore Nozzle (SBN-1) Performance*

| bar @ Nozzle | NOZZLE SIZE (Stream Height: 0.8m) | | | | | | METRIC | |
|--------------|-----------------------------------|--------------------------|-----------------|-----------------|--------------------------|----------|------------|--------------------------|
| | 1.59 mm (1/16") | 1.7 mm (51 drill) | 1.98 mm (5/64") | 2.38 mm (3/32") | 2.78 mm (7/64") | | | |
| Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) |
| 1.7 | 7.2 0.04 | 0.13 | 7.3 0.04 | 0.15 | 7.6 0.06 | 0.20 | 8.1 0.08 | 0.29 |
| 2.0 | 7.3 0.04 | 0.14 | 7.6 0.04 | 0.16 | 7.9 0.06 | 0.22 | 8.3 0.09 | 0.31 |
| 2.5 | 7.7 0.04 | 0.15 | 7.9 0.05 | 0.17 | 8.3 0.07 | 0.24 | 8.8 0.10 | 0.35 |
| 3.0 | 8.0 0.05 | 0.17 | 8.2 0.05 | 0.20 | 8.6 0.07 | 0.27 | 9.1 0.11 | 0.38 |
| 3.5 | 8.2 0.05 | 0.18 | 8.5 0.06 | 0.21 | 8.8 0.08 | 0.28 | 9.4 0.11 | 0.41 |

* Nozzles must be purchased separately.
See Chart below.

L20H

1/2" 13mm Full Circle, Brass Impact Sprinkler

- Durable brass die-cast arm
- Stainless steel springs and fulcrum pin
- Corrosion and grit resistant

Features

- Chemically resistant washers

Benefits

- Spoon drive arm runs on larger nozzles and higher pressures
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Brass
- Trajectory Angle: 10°
- Operating Range: 25-50 psi (1.7-3.5 bar)
- Flow Rate: 1.73-4.05 gpm (0.39-0.92 m³/h)
- Radius: 28-35 ft. (8.5-10.83 meters)
- Nozzle Port: 1/8" Female NPT



Straight Bore Nozzle (SBN-1) Performance*

| psi @ Nozzle | NOZZLE SIZE (Stream Height: 2.5 ft.) | | | | | |
|--------------|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| | 7/64" | | 1/8" | | 9/64" | |
| | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) |
| 25 | 28 | 1.73 | 29 | 2.26 | 30 | 2.86 |
| 30 | 29 | 1.90 | 30 | 2.48 | 31 | 3.14 |
| 35 | 30 | 2.05 | 31 | 2.68 | 33 | 3.39 |
| 40 | 31 | 2.19 | 32 | 2.86 | 33 | 3.62 |
| 45 | 32 | 2.32 | 33 | 3.03 | 34 | 3.84 |
| 50 | 32 | 2.45 | 34 | 3.20 | 35 | 4.05 |

Straight Bore Nozzle (SBN-1) Performance*

| bar @ Nozzle | NOZZLE SIZE (Stream Height: 0.8m) | | | | | | METRIC | | |
|--------------|-----------------------------------|---------------|-----------------------------|-------------------|---------------|-----------------------------|--------------------|---------------|-----------------------------|
| | 2.78 mm (7/64") | | | 3.18 mm (1/8") | | | 3.57 mm (9/64") | | |
| | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) |
| 1.7 | 8.5 | 0.11 | 0.39 | 9.0 | 0.14 | 0.51 | 9.3 | 0.18 | 0.65 |
| 2.0 | 8.8 | 0.12 | 0.42 | 9.2 | 0.15 | 0.55 | 9.5 | 0.19 | 0.70 |
| 2.5 | 9.2 | 0.13 | 0.47 | 9.7 | 0.17 | 0.62 | 10.1 | 0.22 | 0.78 |
| 3.0 | 9.7 | 0.14 | 0.52 | 10.0 | 0.19 | 0.68 | 10.4 | 0.24 | 0.86 |
| 3.5 | 9.9 | 0.15 | 0.56 | 10.4 | 0.20 | 0.73 | 10.8 | 0.26 | 0.92 |

* Nozzles must be purchased separately.

See Chart below.

Part Numbers and Ordering Information

| Sprinkler Only | |
|--------------------------|---------------|
| Sprinkler without Nozzle | A06015 |

| Nozzle Only | | | XX = Nozzle Size | | |
|----------------------------|-------|------------------|------------------|---------|---------|
| U.S. Standard | | | 7/64" | 1/8" | 9/64" |
| Metric | | | 2.78 mm | 3.18 mm | 3.57 mm |
| Brass Straight Bore Nozzle | SBN-1 | 105780-XX | 07 | 08 | 09 |

Bold nozzle size number denotes the most common nozzle choice.

M20VH-PM

1/2" 13mm Full Circle, Brass, Wedge Drive Impact Sprinkler

- Patented, self-flushing wedge drive
- Durable brass die-cast arm
- Stainless steel springs and fulcrum pin

Features

- Chemically resistant washers

Benefits

- Wedge drive runs on smaller nozzles and lower pressures
- Self-flushing design reduces wear from grit
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Plastic
- Trajectory Angle: 15°
- Operating Range: 25-50 psi (1.7-3.5 bar)
- Flow Rate: 0.56-2.45 gpm (0.13-0.56 m³/h)
- Radius: 25-35 ft. (7.8-10.8 meters)
- Nozzle Port: 1/8" Female NPT



Straight Bore Nozzle (SBN-1) Performance*

| psi @ Nozzle | NOZZLE SIZE (Stream Height: 3.5 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) | |
| 25 | 25 | 0.56 | 26 | 0.65 | 27 | 0.88 | 29 | 1.27 | 31 | 1.73 |
| 30 | 26 | 0.62 | 27 | 0.71 | 28 | 0.97 | 30 | 1.39 | 32 | 1.90 |
| 35 | 27 | 0.66 | 28 | 0.77 | 29 | 1.05 | 31 | 1.50 | 33 | 2.05 |
| 40 | 28 | 0.72 | 28 | 0.83 | 30 | 1.12 | 32 | 1.61 | 34 | 2.19 |
| 45 | 29 | 0.75 | 29 | 0.87 | 31 | 1.19 | 33 | 1.71 | 35 | 2.32 |
| 50 | 29 | 0.80 | 30 | 0.92 | 32 | 1.25 | 33 | 1.80 | 35 | 2.45 |

Straight Bore Nozzle (SBN-1) Performance*

| bar @ Nozzle | NOZZLE SIZE (Stream Height: 1.1m) | | | | | | | | | | METRIC | | | | |
|--------------|-----------------------------------|-----------------------------|-------------|--------------------|-----------------------------|-------------|-----------------|-----------------------------|-------------|-----------------|-----------------------------|-------------|-----------------|-----------------------------|------|
| | 1.59 mm (1/16") | | | 1.70 mm (51 Drill) | | | 1.98 mm (5/64") | | | 2.38 mm (3/32") | | | 2.78 mm (7/64") | | |
| Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | |
| 1.7 | 7.8 | 0.04 | 0.13 | 7.9 | 0.04 | 0.15 | 8.4 | 0.06 | 0.20 | 9.0 | 0.08 | 0.29 | 9.4 | 0.11 | 0.39 |
| 2.0 | 8.0 | 0.04 | 0.14 | 8.2 | 0.04 | 0.16 | 8.6 | 0.06 | 0.22 | 9.2 | 0.09 | 0.31 | 9.7 | 0.12 | 0.42 |
| 2.5 | 8.4 | 0.04 | 0.15 | 8.6 | 0.05 | 0.18 | 9.1 | 0.07 | 0.24 | 9.7 | 0.10 | 0.35 | 10.1 | 0.13 | 0.47 |
| 3.0 | 8.7 | 0.05 | 0.17 | 8.9 | 0.05 | 0.19 | 9.4 | 0.07 | 0.27 | 10.0 | 0.11 | 0.38 | 10.6 | 0.14 | 0.52 |
| 3.5 | 9.0 | 0.05 | 0.18 | 9.1 | 0.06 | 0.21 | 9.8 | 0.08 | 0.28 | 10.2 | 0.11 | 0.41 | 10.8 | 0.15 | 0.56 |

* Nozzles must be purchased separately.

See Chart below.

Part Numbers and Ordering Information

| Sprinkler Only | |
|--------------------------|---------------|
| Sprinkler without Nozzle | A05980 |

| Nozzle Only | | | XX = Nozzle Size | | | | | | |
|----------------------------|--------------|------------------|------------------|----------|-----------|---------|---------|---------|--|
| U.S. Standard | | | 1/16" | 51 DRILL | 5/64" | 3/32" | 7/64" | 1/8" | |
| Metric | | | 1.59 mm | 1.70mm | 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 | — | |

Bold nozzle size number denotes the most common nozzle choice.

20JH

1/2" 13mm Full Circle, Brass Impact Sprinkler

- Durable brass die-cast arm
- Stainless steel springs and fulcrum pin
- Corrosion and grit resistant

Features

- Chemically resistant PTFE washers

Benefits

- Spoon drive arm runs on larger nozzles and higher pressures
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Brass
- 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: 38-44 ft. (11.6-13.4 meters)
- Nozzle Port: 1/8" Female NPT



Straight Bore Nozzle (SBN-1) Performance*

| psi @ Nozzle | NOZZLE SIZE (Stream Height: 6 ft.) | | | | | | | |
|---------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|------|
| | 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 (Stream Height: 7 ft.) | | | | | | | |
|---------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | 1/8" | | 9/64" | | 5/32" | | 7/64" | |
| Rad. (ft.) | Flow (gpm) | 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 | 3.84 | 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 | | |

Straight Bore Nozzle (SBN-1) Performance*

| bar @ Nozzle | NOZZLE SIZE (Stream Height: 1.8m) | | | | | | | | METRIC | | | |
|--------------|-----------------------------------|----------------|-------------|----------------|----------------|-------------|-----------------|----------------|-------------|-----------------|----------------|------|
| | 2.78 mm (7/64") | | | 3.18 mm (1/8") | | | 3.57 mm (9/64") | | | 3.97 mm (5/32") | | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | |
| 2.4 | 11.6 | 0.13 | 0.47 | 11.7 | 0.17 | 0.61 | 12.0 | 0.21 | 0.77 | 12.0 | 0.26 | 0.95 |
| 2.5 | 11.6 | 0.13 | 0.47 | 11.8 | 0.17 | 0.62 | 12.1 | 0.22 | 0.78 | 12.0 | 0.27 | 0.97 |
| 3.0 | 11.8 | 0.14 | 0.52 | 12.0 | 0.19 | 0.68 | 12.2 | 0.24 | 0.86 | 12.1 | 0.29 | 1.06 |
| 3.5 | 11.9 | 0.16 | 0.56 | 12.1 | 0.20 | 0.73 | 12.3 | 0.26 | 0.93 | 12.3 | 0.32 | 1.14 |
| 4.0 | 12.0 | 0.17 | 0.60 | 12.2 | 0.22 | 0.78 | 12.4 | 0.27 | 0.99 | 12.4 | 0.34 | 1.22 |
| 4.1 | 12.0 | 0.17 | 0.61 | 12.2 | 0.22 | 0.79 | 12.5 | 0.28 | 1.01 | 12.5 | 0.35 | 1.24 |

Straight Bore Nozzle with Vane (SBN-1V)* METRIC

| bar @ Nozzle | NOZZLE SIZE (Stream Height: 2.1m) | | | | | | | | METRIC | | |
|--------------|-----------------------------------|----------------|-------------|-----------------|----------------|-------------|-----------------|----------------|-------------|---------------|----------------|
| | 3.18 mm (1/8") | | | 3.57 mm (9/64") | | | 3.97 mm (5/32") | | | | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) |
| 2.4 | 12.0 | 0.17 | 0.61 | 12.5 | 0.21 | 0.77 | 12.8 | 0.26 | 0.95 | | |
| 2.5 | 12.1 | 0.17 | 0.62 | 12.5 | 0.22 | 0.78 | 12.8 | 0.27 | 0.97 | | |
| 3.0 | 12.3 | 0.19 | 0.68 | 12.8 | 0.24 | 0.86 | 13.0 | 0.29 | 1.06 | | |
| 3.5 | 12.5 | 0.20 | 0.73 | 13.0 | 0.26 | 0.93 | 13.1 | 0.32 | 1.14 | | |
| 4.0 | 12.5 | 0.22 | 0.78 | 13.2 | 0.27 | 0.99 | 13.3 | 0.34 | 1.22 | | |
| 4.1 | 12.5 | 0.22 | 0.79 | 13.3 | 0.28 | 1.01 | 13.4 | 0.35 | 1.24 | | |

* 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.

See Chart below.

Part Numbers and Ordering Information

| | |
|--------------------------|---------------|
| Sprinkler Only | |
| Sprinkler without Nozzle | A05840 |

Assembled Sprinkler/Nozzle Factory Combination

| | |
|---|-----------------|
| Sprinkler with Nozzle SBN-1 7/64" | A0584107 |
| Sprinkler with Nozzle SBN-1 1/8" | A0584108 |

Nozzle Only

U.S. Standard

Metric

2.78 mm

3.18 mm

3.57 mm

3.97 mm

XX = Nozzle Size

7/64"

1/8"

9/64"

5/32"

07

08

09

10

—

08

09

10

Bold nozzle size number denotes the most common nozzle choice.

29JH

1/2" (13mm) Full Circle, Brass Impact Sprinkler

- Extra large body
- Stainless steel springs and fulcrum pin
- Large body accommodates a wide range of flow rates

Features

- Chemically resistant washers

Benefits

- Corrosion and grit resistant
- Built to last
- Spoon drive arm runs on larger nozzles and higher pressures.
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Brass
- Trajectory Angle: 23°
- Operating Range: 20-80 psi (1.4-5.5 bar)
- Flow Rate: 1.56-6.35 gpm (0.35-1.44 m³/h)
- Radius: 35-46 ft. (10.8-14.2 meters)
- Nozzle Port: 1/4" Female NPT

| Straight Bore Nozzle (SBN-3)* | | | | | | | | |
|-------------------------------|-----------------------------------|------|-------|-------|------------|------------|------------|------------|
| psi @ Nozzle | NOZZLE SIZE (Stream Height: 7 ft) | | | | | | | |
| | 7/64" | 1/8" | 9/64" | 5/32" | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) |
| 20 | 35 | 1.56 | 36 | 2.03 | 38 | 2.57 | 39 | 3.17 |
| 25 | 37 | 1.74 | 37 | 2.27 | 38 | 2.87 | 40 | 3.55 |
| 30 | 37 | 1.91 | 38 | 2.49 | 39 | 3.15 | 41 | 3.89 |
| 35 | 38 | 2.06 | 38 | 2.69 | 40 | 3.40 | 42 | 4.20 |
| 40 | 38 | 2.20 | 39 | 2.87 | 41 | 3.64 | 42 | 4.49 |
| 45 | 39 | 2.33 | 39 | 3.05 | 41 | 3.86 | 43 | 4.76 |
| 50 | 39 | 2.46 | 40 | 3.21 | 42 | 4.07 | 44 | 5.02 |
| 55 | 39 | 2.58 | 40 | 3.37 | 84 | 4.28 | 44 | 5.26 |
| 60 | 39 | 2.69 | 40 | 3.52 | 42 | 4.45 | 44 | 5.50 |
| 65 | 39 | 2.80 | 41 | 3.66 | 43 | 4.64 | 45 | 5.72 |
| 70 | 39 | 2.91 | 41 | 3.80 | 43 | 4.81 | 45 | 5.94 |
| 75 | 40 | 3.01 | 41 | 3.93 | 44 | 4.98 | 46 | 6.15 |
| 80 | 40 | 3.11 | 42 | 4.06 | 44 | 5.14 | 46 | 6.35 |

| Straight Bore Nozzle (SBN-3)* | | | | | | | | METRIC | | | | |
|-------------------------------|-----------------|----------------|-----------------|-----------------|----------|------------|--------------------------|-----------------------|------------|--------------------------|------|------|
| bar @ Nozzle | NOZZLE SIZE | | | | | | | (Stream Height: 2.1m) | | | | |
| | 2.78 mm (7/64") | 3.18 mm (1/8") | 3.57 mm (9/64") | 3.97 mm (5/32") | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | | |
| 1.4 | 10.8 | 0.10 | 0.35 | 11.1 | 0.13 | 0.46 | 11.6 | 0.16 | 0.58 | 11.9 | 0.20 | 0.72 |
| 1.5 | 11.0 | 0.10 | 0.37 | 11.2 | 0.13 | 0.48 | 11.6 | 0.17 | 0.61 | 12.0 | 0.21 | 0.75 |
| 2.0 | 11.4 | 0.12 | 0.43 | 11.5 | 0.15 | 0.56 | 12.0 | 0.20 | 0.70 | 12.4 | 0.24 | 0.87 |
| 2.5 | 11.6 | 0.13 | 0.48 | 11.8 | 0.17 | 0.62 | 12.3 | 0.22 | 0.79 | 12.8 | 0.27 | 0.97 |
| 3.0 | 11.8 | 0.14 | 0.52 | 12.1 | 0.19 | 0.68 | 12.6 | 0.24 | 0.86 | 13.1 | 0.30 | 1.06 |
| 3.5 | 11.9 | 0.16 | 0.56 | 12.2 | 0.20 | 0.73 | 12.8 | 0.26 | 0.93 | 13.4 | 0.32 | 1.15 |
| 4.0 | 12.0 | 0.17 | 0.60 | 12.4 | 0.22 | 0.79 | 13.0 | 0.28 | 1.00 | 13.6 | 0.34 | 1.23 |
| 4.5 | 12.0 | 0.18 | 0.64 | 12.6 | 0.23 | 0.83 | 13.1 | 0.29 | 1.06 | 13.7 | 0.36 | 1.30 |
| 5.0 | 12.1 | 0.19 | 0.67 | 12.7 | 0.24 | 0.88 | 13.3 | 0.31 | 1.11 | 13.9 | 0.38 | 1.37 |
| 5.5 | 12.2 | 0.20 | 0.71 | 10.1 | 0.26 | 0.92 | 13.4 | 0.32 | 1.17 | 14.2 | 0.40 | 1.44 |

* Nozzles must be purchased separately.
See Chart below.



Part Numbers and Ordering Information

| | |
|--------------------------|---------------|
| Sprinkler Only | |
| Sprinkler without Nozzle | A06501 |

| 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-3 | 105842-XX | 07 | 08 | 09 | 10 |

Bold nozzle size number denotes the most common nozzle choice.

L36H

3/4" 19 mm Full Circle, Plastic, Low Angle Impact Sprinkler

- Durable Delrin™ plastic body and arm
- Slotted spoon for larger nozzles

Features

- Wide range of quick-fit nozzles
- Stainless steel springs and fulcrum pin
- Brass bearing sleeve
- Chemically resistant washers
- Dual nozzle ports

Benefits

- Superior chemical and grit resistance
- Low angle fights strong wind conditions
- Great choice for pivot or under tree applications
- Easy maintenance
- Added design flexibility
- Built to last
- Two-year Customer Satisfaction Policy

Specifications

- Bearing: 3/4" (19mm) Male NPT, Brass
- Trajectory Angle: 10°
- Operating Range: 20-60 psi (1.4-4.1 bar)
- Flow Rate: 1.6-17.8 gpm (0.36-4.04 m³/h)
- Radius: 43-61 ft. (13.1-18.7m)
- Nozzle Port: Plastic Quick-Fit

L36H Quick-Fit Straight Bore Nozzle (QF-SBN-3) (Star Hole) Performance*

| psi@ Nozzle | NOZZLE SIZE | | | | | | | | |
|-------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|----------------------------|------------------------------|-----------------------------|
| | 5/32" Rad. Flow (ft.) (gpm) | 11/64" Rad. Flow (ft.) (gpm) | 3/16" Rad. Flow (ft.) (gpm) | 13/64" Rad. Flow (ft.) (gpm) | 7/32" Rad. Flow (ft.) (gpm) | 15/64" Rad. Flow (ft.) (gpm) | 1/4" Rad. Flow (ft.) (gpm) | 17/64" Rad. Flow (ft.) (gpm) | 9/32" Rad. Flow (ft.) (gpm) |
| 35 | 48 4.20 | 49 5.00 | 50 6.00 | 51 7.10 | 52 8.30 | 53 9.50 | 53 10.80 | 53 12.10 | 54 13.60 |
| 40 | 49 4.50 | 51 5.40 | 52 6.40 | 52 7.60 | 53 8.90 | 54 10.10 | 55 11.50 | 55 13.00 | 56 14.60 |
| 45 | 51 4.70 | 52 5.70 | 53 6.80 | 53 8.10 | 54 9.40 | 55 10.70 | 56 12.20 | 57 13.80 | 58 15.40 |
| 50 | 53 5.00 | 54 6.00 | 54 7.20 | 54 8.50 | 56 9.90 | 57 11.30 | 58 12.90 | 59 14.50 | 59 16.30 |
| 55 | 53 5.20 | 54 6.30 | 55 7.50 | 55 8.90 | 57 10.30 | 58 11.80 | 59 13.50 | 60 15.20 | 60 17.10 |
| 60 | 54 5.40 | 55 6.60 | 55 7.80 | 56 9.20 | 58 10.60 | 59 12.40 | 60 14.10 | 61 15.90 | 61 17.80 |

Note: Performance data taken using 13' (4m) riser

* Nozzles must be purchased separately.
See Chart below.

**Part Numbers and Ordering Information**

| Sprinkler Only | | XX = Nozzle Size | | | | | | | | | | |
|---|-----------------|------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | U.S. Standard | | 5/32" | 11/64" | 3/16" | 13/64" | 7/32" | 15/64" | 1/4" | 17/64" | 9/32" |
| | | Metric | | 3.97mm | 4.37mm | 4.76mm | 5.16mm | 3.97mm | 5.56mm | 6.35mm | 6.75mm | 7.14mm |
| Plastic Quick-Fit Straight Bore Nozzle | QF-SBN-3 | 107881-XX | 10 | 11 | 12 | 13 | 14 | 15 | | 17 | 18 | |

Bold nozzle size number denotes the most common nozzle choice.

L36H Quick-Fit Straight Bore Nozzle (QF-SBN-3) (Star Hole) Performance*

METRIC

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | METRIC | | | | | | | | | | | | | | |
|-----------------|--------------------|---------------|----------------|---------------------|---------------|----------------|--------------------|---------------|----------------|---------------------|---------------|----------------|--------------------|---------------|----------------|---------------------|---------------|----------------|-------------------|---------------|----------------|---------------------|---------------|----------------|--------------------|------|------|
| | 3.97 mm (5/32") | | | 4.37 mm (11/64") | | | 4.76 mm (3/16") | | | 5.16 mm (13/64") | | | 5.56 mm (7/32") | | | 5.95 mm (15/64") | | | 6.35 mm (1/4") | | | 6.75 mm (17/64") | | | 7.14 mm (9/32") | | |
| | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | | | |
| 2.4 | 14.8 | 0.26 | 0.95 | 15.1 | 0.32 | 1.14 | 15.2 | 0.38 | 1.36 | 15.5 | 0.45 | 1.61 | 15.8 | 0.52 | 1.89 | 16.2 | 0.60 | 2.16 | 16.3 | 0.68 | 2.45 | 16.3 | 0.76 | 2.75 | 16.5 | 0.86 | 3.09 |
| 2.5 | 14.9 | 0.27 | 0.97 | 15.2 | 0.32 | 1.16 | 15.4 | 0.38 | 1.39 | 15.7 | 0.46 | 1.64 | 15.9 | 0.53 | 1.92 | 16.2 | 0.61 | 2.19 | 16.4 | 0.69 | 2.49 | 16.5 | 0.78 | 2.80 | 16.6 | 0.87 | 3.14 |
| 3.0 | 15.5 | 0.29 | 1.05 | 15.9 | 0.35 | 1.27 | 16.1 | 0.42 | 1.52 | 16.2 | 0.50 | 1.81 | 16.5 | 0.58 | 2.10 | 16.8 | 0.66 | 2.39 | 17.1 | 0.76 | 2.72 | 17.2 | 0.86 | 3.08 | 17.5 | 0.96 | 3.44 |
| 3.5 | 16.2 | 0.32 | 1.14 | 16.5 | 0.38 | 1.37 | 16.6 | 0.46 | 1.65 | 16.7 | 0.54 | 1.94 | 17.1 | 0.63 | 2.26 | 17.4 | 0.72 | 2.58 | 17.9 | 0.82 | 2.95 | 18.0 | 0.92 | 3.32 | 18.2 | 1.04 | 3.73 |
| 4.0 | 16.4 | 0.34 | 1.21 | 16.7 | 0.41 | 1.47 | 16.9 | 0.48 | 1.74 | 17.0 | 0.57 | 2.06 | 17.6 | 0.66 | 2.38 | 18.0 | 0.77 | 2.76 | 18.3 | 0.87 | 3.15 | 18.5 | 0.99 | 3.55 | 18.6 | 1.11 | 3.98 |
| 4.1 | 16.5 | 0.34 | 1.23 | 16.8 | 0.42 | 1.50 | 16.9 | 0.49 | 1.77 | 17.1 | 0.58 | 2.09 | 17.7 | 0.67 | 2.41 | 18.1 | 0.78 | 2.82 | 18.4 | 0.89 | 3.20 | 18.6 | 1.00 | 3.61 | 18.7 | 1.12 | 4.04 |

* Nozzles must be purchased separately. See chart on previous page.

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Monitoring & Controls

Filtration

48H

3/4" (19mm) Full Circle, Plastic Impact Sprinkler

- Durable Delrin™ plastic body, and arm
- Stainless steel spring and fulcrum pin
- Chemically resistant, PTFE washers

Features

- Color coded quick-fit nozzles provide easy maintenance
- 5 nozzles, 2 spreader nozzles, and a plug allow for design flexibility
- Plastic body and bearing provide increased affordability

Benefits

- PTFE washers allow for smaller nozzles and lower pressures
- Superior chemical and grit resistance
- Exceptionally wide range of flow rates
- Built to last
- Two-year Customer Satisfaction Policy

Specifications

- Bearing: 3/4" (19mm) Male NPT, Plastic
- Trajectory Angle: 23°
- Operating Range: 30-80 psi (2.1-5.5 bar)
- Flow Rate: 4.2 – 14.2 gpm (960-3230 l/h)
- Radius: 42-60 ft. (12.8-18.3 m)
- Nozzle Port: 1/4" Female NPT
- Spreader Nozzle Port: 3/32" or 1/8" Female NPT



| psi@ Nozzle | NOZZLE SIZE | | | | |
|----------------|-------------|------------------------|--------|------------------------|------------------------|
| | 5/32" | | 11/64" | | 3/16" |
| | Rad. | Flow (ft.) (gpm) | Rad. | Flow (ft.) (gpm) | Rad. (ft.) (gpm) |
| 30 | - | - | - | - | 46 5.43 |
| 35 | 44 | 4.22 | 46 | 5.02 | 47 5.88 |
| 40 | 46 | 4.5 | 48 | 5.48 | 50 6.26 |
| 45 | 46 | 4.82 | 50 | 5.78 | 51 6.68 |
| 50 | 48 | 5.03 | 51 | 6.17 | 52 7.1 |
| 55 | 50 | 5.37 | 51 | 6.44 | 52 7.47 |
| 60 | 50 | 5.54 | 51 | 6.67 | 52 7.7 |
| 65 | 50 | 5.81 | 52 | 7.09 | 53 8.15 |
| 70 | 51 | 6.04 | 54 | 7.33 | 54 8.45 |
| 75 | 51 | 6.22 | 54 | 7.58 | 55 8.72 |
| 80 | 51 | 6.46 | 55 | 7.84 | 55 8.97 |
| | | | | | 57 10.31 |
| | | | | | 59 11.8 |

| psi@ Nozzle | NOZZLE SIZE | | | | |
|----------------|-------------|------------------------|--------|------------------------|------------------------|
| | 5/32" | | 11/64" | | 3/16" |
| | Rad. | Flow (ft.) (gpm) | Rad. | Flow (ft.) (gpm) | Rad. (ft.) (gpm) |
| 30 | - | - | - | - | 44 6.4 |
| 35 | 44 | 5.4 | 44 | 6.25 | 45 7 |
| 40 | 46 | 5.77 | 46 | 6.69 | 47 7.53 |
| 45 | 46 | 6.16 | 48 | 7.16 | 49 7.98 |
| 50 | 47 | 6.54 | 49 | 7.58 | 50 8.45 |
| 55 | 47 | 6.84 | 50 | 7.91 | 52 8.94 |
| 60 | 48 | 7.18 | 50 | 8.26 | 53 9.26 |
| 65 | 49 | 7.46 | 51 | 8.61 | 54 9.7 |
| 70 | 50 | 7.72 | 52 | 8.97 | 54 10.09 |
| 75 | 51 | 7.97 | 53 | 9.17 | 56 10.35 |
| 80 | 51 | 8.28 | 54 | 9.51 | 56 10.7 |
| | | | | | 57 12.01 |
| | | | | | 60 13.56 |

| psi@ Nozzle | NOZZLE SIZE | | | | |
|----------------|-------------|------------------------|--------|------------------------|------------------------|
| | 5/32" | | 11/64" | | 3/16" |
| | Rad. | Flow (ft.) (gpm) | Rad. | Flow (ft.) (gpm) | Rad. (ft.) (gpm) |
| 30 | - | - | - | - | 44 6.89 |
| 35 | 42 | 5.91 | 44 | 6.73 | 44 7.43 |
| 40 | 45 | 6.32 | 45 | 7.24 | 46 8.02 |
| 45 | 46 | 6.72 | 46 | 7.66 | 48 8.54 |
| 50 | 46 | 7.1 | 48 | 8.1 | 50 9.01 |
| 55 | 46 | 7.46 | 49 | 8.4 | 52 9.37 |
| 60 | 47 | 7.76 | 50 | 8.88 | 52 9.89 |
| 65 | 48 | 8.11 | 50 | 9.32 | 52 10.31 |
| 70 | 48 | 8.39 | 51 | 9.59 | 54 10.66 |
| 75 | 48 | 8.75 | 51 | 9.92 | 55 11.08 |
| 80 | 49 | 8.99 | 52 | 10.25 | 55 11.46 |
| | | | | | 58 12.75 |
| | | | | | 60 14.24 |

* Nozzles must be purchased separately. See Chart below.

Part Numbers and Ordering Information

| Sprinkler Only | |
|---|---------------|
| Sprinkler Without Nozzle, Without Plug | A07370 |

| Plastic Quick-Fit Nozzle Only | |
|--|---------------|
| 5/32" (3.97 mm) Plastic Straight Bore Quick-Fit Nozzle (Black) | A07390 |
| 11/64" (4.37 mm) Plastic Straight Bore Quick-Fit Nozzle (Brown) | A07391 |
| 3/16" (4.76 mm) Plastic Straight Bore Quick-Fit Nozzle (Yellow) | A07392 |
| 13/64" (5.16 mm) Plastic Straight Bore Quick-Fit Nozzle (Purple) | A07393 |
| 7/32" (5.56 mm) Plastic Straight Bore Quick-Fit Nozzle (Orange) | A07394 |

| Spreader Nozzle and Plug Only | |
|---|---------------|
| 3/32" (2.38 mm) Plastic Spreader Nozzle (Green) | A07395 |
| 1/8" (3.18 mm) Plastic Spreader Nozzle (Blue) | A07396 |
| Plastic Plug (Orange) | A07397 |

| Plastic Nozzle with Plug Performance | | METRIC | | | | |
|--------------------------------------|------|-------------|--------|-------|--------|-------|
| psi@ Nozzle | | NOZZLE SIZE | | | | |
| | | 5/32" | 11/64" | 3/16" | 13/64" | 7/32" |
| Rad. | Flow | (m) | (l/h) | Rad. | Flow | (m) |
| 2.1 | - | - | - | 14.0 | 1230 | 14.9 |
| 2.4 | 13.4 | 960 | 14.0 | 1140 | 14.3 | 1340 |
| 2.8 | 14.0 | 1020 | 14.6 | 1240 | 15.2 | 1420 |
| 3.1 | 14.0 | 1090 | 15.2 | 1310 | 15.8 | 1520 |
| 3.4 | 14.6 | 1140 | 15.5 | 1400 | 16.2 | 1610 |
| 3.8 | 15.2 | 1220 | 15.5 | 1460 | 16.5 | 1700 |
| 4.1 | 15.2 | 1260 | 15.5 | 1510 | 16.8 | 1750 |
| 4.5 | 15.2 | 1320 | 15.8 | 1610 | 17.1 | 1850 |
| 4.8 | 15.5 | 1370 | 16.5 | 1660 | 17.1 | 1920 |
| 5.2 | 15.5 | 1410 | 16.5 | 1720 | 17.4 | 1980 |
| 5.5 | 15.5 | 1470 | 16.8 | 1780 | 17.4 | 2040 |
| | | | | | 17.4 | 2340 |
| | | | | | | 18.0 |
| | | | | | | 2680 |



| Plastic Nozzle with 3/32" Spreader Nozzle Performance | | METRIC | | | | |
|---|------|-------------|--------|-------|--------|-------|
| psi@ Nozzle | | NOZZLE SIZE | | | | |
| | | 5/32" | 11/64" | 3/16" | 13/64" | 7/32" |
| Rad. | Flow | (m) | (l/h) | Rad. | Flow | (m) |
| 2.1 | - | - | - | 13.4 | 1450 | 14.0 |
| 2.4 | 13.4 | 1230 | 13.4 | 1420 | 13.7 | 1590 |
| 2.8 | 14.0 | 1310 | 14.0 | 1520 | 14.3 | 1710 |
| 3.1 | 14.0 | 1400 | 14.6 | 1630 | 14.9 | 1810 |
| 3.4 | 14.3 | 1490 | 14.9 | 1720 | 15.2 | 1920 |
| 3.8 | 14.3 | 1550 | 15.2 | 1800 | 15.8 | 2030 |
| 4.1 | 14.6 | 1630 | 15.2 | 1880 | 16.2 | 2100 |
| 4.5 | 14.9 | 1690 | 15.5 | 1960 | 16.5 | 2200 |
| 4.8 | 15.2 | 1750 | 15.8 | 2040 | 16.5 | 2290 |
| 5.2 | 15.5 | 1810 | 16.2 | 2080 | 17.1 | 2350 |
| 5.5 | 15.5 | 1880 | 16.5 | 2160 | 17.1 | 2430 |
| | | | | | 17.4 | 2730 |
| | | | | | | 18.3 |
| | | | | | | 3080 |

| Plastic Nozzle with 1/8" Spreader Nozzle Performance | | METRIC | | | | |
|--|------|-------------|--------|-------|--------|-------|
| psi@ Nozzle | | NOZZLE SIZE | | | | |
| | | 5/32" | 11/64" | 3/16" | 13/64" | 7/32" |
| Rad. | Flow | (m) | (l/h) | Rad. | Flow | (m) |
| 2.1 | - | - | - | 13.4 | 1560 | 13.7 |
| 2.4 | 12.8 | 1340 | 13.4 | 1530 | 13.4 | 1690 |
| 2.8 | 13.7 | 1440 | 13.7 | 1640 | 14.0 | 1820 |
| 3.1 | 14.0 | 1530 | 14.0 | 1740 | 14.6 | 1940 |
| 3.4 | 14.0 | 1610 | 14.6 | 1840 | 15.2 | 2050 |
| 3.8 | 14.0 | 1690 | 14.9 | 1910 | 15.8 | 2130 |
| 4.1 | 14.3 | 1760 | 15.2 | 2020 | 16.5 | 2250 |
| 4.5 | 14.6 | 1840 | 15.2 | 2120 | 17.1 | 2340 |
| 4.8 | 14.6 | 1910 | 15.5 | 2180 | 17.1 | 2420 |
| 5.2 | 14.6 | 1990 | 15.5 | 2250 | 17.4 | 2520 |
| 5.5 | 14.9 | 2040 | 15.8 | 2330 | 17.7 | 2600 |
| | | | | | 17.7 | 2900 |
| | | | | | | 18.3 |
| | | | | | | 3230 |

* Nozzles must be purchased separately. See chart on previous page.

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Monitoring & Controls

Filtration

Impact Sprinklers

3/4" (19mm) Full Circle

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Monitoring & Controls

Filtration

30H / 30WH

3/4" 19 mm Full Circle, Brass Impact Sprinkler

- Heavy duty brass construction
- Stainless steel springs and fulcrum pin
- Chemically resistant washers

Features

- Dual nozzle ports
- 30H unit does not have a spreader plug
- 30WH unit has spreader plug

Benefits

- Wide range of flow rates
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 3/4" (19mm) Male NPT, Brass
- 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: 40-56 ft. (12.20-17.23 meters)
- Nozzle Port: 1/8" Female NPT
- Spreader Nozzle Port: 1/8" Female NPT



Part Numbers and Ordering Information

| Sprinkler Only | | |
|--|-------------|--------|
| Sprinkler Without Nozzle, Without Plug | 30H | A08401 |
| Sprinkler without Nozzle, With Plug | 30WH | A08411 |

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

| psi@ Nozzle | NOZZLE SIZE (Stream Height: 9 ft.) | | | |
|-------------|------------------------------------|-------|--------|-------|
| | 9/64" | 5/32" | 11/64" | 3/16" |
| 25 | 40 | 2.90 | 41 | 3.50 |
| 30 | 40 | 3.10 | 42 | 3.90 |
| 35 | 41 | 3.40 | 43 | 4.20 |
| 40 | 41 | 3.60 | 44 | 4.50 |
| 45 | 42 | 3.80 | 44 | 4.70 |
| 50 | 42 | 4.10 | 45 | 5.00 |
| 55 | 43 | 4.20 | 45 | 5.20 |
| 60 | 43 | 4.40 | 46 | 5.50 |
| 65 | 44 | 4.60 | 46 | 5.80 |
| 70 | 44 | 4.80 | 47 | 5.90 |
| 75 | 45 | 5.00 | 47 | 6.10 |
| 80 | 45 | 5.10 | 48 | 6.30 |

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" | |
| 25 | 40 | 4.20 | 41 | 4.80 | 41 | 5.60 |
| 30 | 40 | 4.60 | 42 | 5.30 | 44 | 6.10 |
| 35 | 41 | 4.90 | 43 | 5.70 | 45 | 6.60 |
| 40 | 41 | 5.20 | 44 | 6.10 | 46 | 7.00 |
| 45 | 42 | 5.60 | 44 | 6.50 | 46 | 7.40 |
| 50 | 42 | 5.90 | 45 | 6.80 | 47 | 7.90 |
| 55 | 43 | 6.10 | 45 | 7.10 | 48 | 8.20 |
| 60 | 43 | 6.40 | 46 | 7.40 | 48 | 8.60 |
| 65 | 44 | 6.70 | 46 | 7.80 | 49 | 8.90 |
| 70 | 44 | 6.90 | 47 | 8.10 | 49 | 9.30 |
| 75 | 45 | 7.20 | 47 | 8.30 | 50 | 9.60 |
| 80 | 45 | 7.50 | 48 | 8.70 | 50 | 10.00 |

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" |
| 25 | 42 | 2.90 | 44 | 3.50 |
| 30 | 43 | 3.10 | 45 | 3.90 |
| 35 | 44 | 3.40 | 46 | 4.20 |
| 40 | 45 | 3.60 | 47 | 4.50 |
| 45 | 46 | 3.80 | 48 | 4.70 |
| 50 | 46 | 4.10 | 49 | 5.00 |
| 55 | 47 | 4.20 | 50 | 5.20 |
| 60 | 47 | 4.40 | 50 | 5.50 |
| 65 | 48 | 4.60 | 51 | 5.80 |
| 70 | 48 | 4.80 | 51 | 5.90 |
| 75 | 49 | 5.00 | 52 | 6.10 |
| 80 | 50 | 5.10 | 52 | 6.30 |

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" | |
| 25 | 42 | 4.20 | 44 | 4.80 | 45 | 5.60 |
| 30 | 43 | 4.60 | 45 | 5.30 | 46 | 6.10 |
| 35 | 44 | 4.90 | 46 | 5.70 | 47 | 6.60 |
| 40 | 45 | 5.20 | 47 | 6.10 | 48 | 7.00 |
| 45 | 46 | 5.60 | 48 | 6.50 | 49 | 7.40 |
| 50 | 46 | 5.90 | 49 | 6.80 | 50 | 7.90 |
| 55 | 47 | 6.10 | 50 | 7.10 | 51 | 8.20 |
| 60 | 47 | 6.40 | 50 | 7.40 | 51 | 8.60 |
| 65 | 48 | 6.70 | 51 | 7.80 | 52 | 8.90 |
| 70 | 48 | 6.90 | 51 | 8.10 | 53 | 9.30 |
| 75 | 49 | 7.20 | 52 | 8.30 | 54 | 9.60 |
| 80 | 50 | 7.50 | 52 | 8.70 | 55 | 10.00 |

* Nozzles must be purchased separately. See chart below.

| Nozzle Only | | |
|--------------------------------------|-----------------|------------------|
| | U.S. Standard | 3/32" |
| | Metric | 2.38mm |
| Brass Straight Bore Nozzle | SBN-3 | 105842-XX |
| Brass Straight Bore Nozzle with Vane | SBN-3V | 106131-XX |
| Brass 7° Low Angle Spreader | LAN-1-7 | 100225-XX |
| Brass 20° Low Angle Spreader | LAN-1-20 | 100226-XX |
| Brass Plug | | 100255 |

Bold nozzle size number denotes the most common nozzle choice.

| 30H Brass Straight Bore Nozzle (SBN-3) with Plug * | | | | | | | METRIC | | |
|---|--------------------------------------|----------------|--------------------|---------------|---------------------|-------------|--------------------|----------------|------|
| bar @ Nozzle | NOZZLE SIZE (Stream Height: 1.1m) | | | | | | | | |
| | 3.57 MM (9/64") | | 3.97 MM (5/32") | | 4.37 MM (11/64") | | 4.76 MM (3/16") | | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | |
| 1.7 | 12.2 | 0.18 | 0.66 | 12.5 | 0.22 | 0.79 | 12.6 | 0.27 | 0.98 |
| 2.0 | 12.3 | 0.19 | 0.69 | 12.9 | 0.24 | 0.87 | 13.3 | 0.29 | 1.05 |
| 2.5 | 12.5 | 0.22 | 0.78 | 13.3 | 0.27 | 0.97 | 13.8 | 0.33 | 1.18 |
| 3.0 | 12.8 | 0.24 | 0.85 | 13.5 | 0.29 | 1.05 | 14.1 | 0.35 | 1.27 |
| 3.5 | 13.0 | 0.26 | 0.93 | 13.7 | 0.32 | 1.14 | 14.5 | 0.39 | 1.39 |
| 4.0 | 13.2 | 0.27 | 0.98 | 14.0 | 0.34 | 1.22 | 14.7 | 0.41 | 1.47 |
| 4.5 | 13.4 | 0.29 | 1.05 | 14.2 | 0.37 | 1.32 | 14.9 | 0.44 | 1.57 |
| 5.0 | 13.6 | 0.31 | 1.11 | 14.4 | 0.38 | 1.36 | 15.2 | 0.46 | 1.66 |
| 5.5 | 13.9 | 0.32 | 1.16 | 14.6 | 0.40 | 1.43 | 15.4 | 0.49 | 1.75 |
| | | | | | | | 16.2 | 0.57 | 2.07 |

| 30H Brass Straight Bore Nozzle (SBN-3) with Spreader (LAN-1*) | | | | | | | METRIC | | |
|--|---|----------------|---|---------------|--|-------------|---|----------------|------|
| bar @ Nozzle | NOZZLE SIZE (Stream Height: 1.1m) | | | | | | | | |
| | 3.57 mm x 2.38 mm (9/64" x 3/32") 7° | | 3.97 mm x 2.38 mm (5/32" x 3/32") 7° | | 4.37 mm x 2.38 mm (11/64" x 3/32") 7° | | 4.76 mm x 2.38 mm (3/16" x 3/32") 7° | | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | |
| 1.7 | 12.2 | 0.26 | 0.95 | 12.5 | 0.30 | 1.09 | 12.6 | 0.35 | 1.27 |
| 2.0 | 12.3 | 0.29 | 1.03 | 12.9 | 0.33 | 1.18 | 13.3 | 0.38 | 1.36 |
| 2.5 | 12.5 | 0.31 | 1.13 | 13.3 | 0.37 | 1.32 | 13.8 | 0.42 | 1.52 |
| 3.0 | 12.8 | 0.35 | 1.24 | 13.5 | 0.40 | 1.45 | 14.1 | 0.46 | 1.65 |
| 3.5 | 13.0 | 0.37 | 1.35 | 13.7 | 0.43 | 1.55 | 14.5 | 0.50 | 1.80 |
| 4.0 | 13.2 | 0.40 | 1.43 | 14.0 | 0.46 | 1.65 | 14.7 | 0.53 | 1.92 |
| 4.5 | 13.4 | 0.42 | 1.52 | 14.2 | 0.49 | 1.77 | 14.9 | 0.56 | 2.03 |
| 5.0 | 13.6 | 0.44 | 1.60 | 14.4 | 0.52 | 1.86 | 15.2 | 0.60 | 2.15 |
| 5.5 | 13.9 | 0.47 | 1.70 | 14.6 | 0.55 | 1.98 | 15.4 | 0.63 | 2.27 |
| | | | | | | | 16.2 | 0.73 | 2.61 |
| | | | | | | | 16.2 | 0.83 | 2.98 |

| 30H Brass Straight Bore Nozzle (SBN-3) with Plug * | | | | | | | METRIC | | |
|---|------------------------------------|----------------|--------------------|---------------|---------------------|-------------|--------------------|----------------|------|
| bar @ Nozzle | NOZZLE SIZE (Stream Height: 3m) | | | | | | | | |
| | 3.57 MM (9/64") | | 3.97 MM (5/32") | | 4.37 MM (11/64") | | 4.76 MM (3/16") | | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | |
| 1.7 | 13.0 | 0.18 | 0.66 | 13.4 | 0.22 | 0.79 | 13.7 | 0.27 | 0.98 |
| 2.0 | 13.2 | 0.19 | 0.69 | 13.7 | 0.24 | 0.87 | 14.0 | 0.29 | 1.05 |
| 2.5 | 13.6 | 0.22 | 0.78 | 14.1 | 0.27 | 0.97 | 14.4 | 0.33 | 1.18 |
| 3.0 | 14.0 | 0.24 | 0.85 | 14.5 | 0.29 | 1.05 | 14.8 | 0.35 | 1.27 |
| 3.5 | 14.2 | 0.26 | 0.93 | 15.0 | 0.32 | 1.14 | 15.3 | 0.39 | 1.39 |
| 4.0 | 14.4 | 0.27 | 0.98 | 15.3 | 0.34 | 1.22 | 15.6 | 0.41 | 1.47 |
| 4.5 | 14.6 | 0.29 | 1.05 | 15.6 | 0.37 | 1.32 | 15.9 | 0.44 | 1.57 |
| 5.0 | 14.9 | 0.31 | 1.11 | 15.8 | 0.38 | 1.36 | 16.3 | 0.46 | 1.66 |
| 5.5 | 15.2 | 0.32 | 1.16 | 16.0 | 0.40 | 1.43 | 16.8 | 0.49 | 1.75 |
| | | | | | | | 17.2 | 0.57 | 2.07 |

| 30H Brass Straight Bore Nozzle (SBN-3) with Spreader (LAN-1*) | | | | | | | METRIC | | |
|--|---|----------------|---|---------------|--|-------------|---|----------------|------|
| bar @ Nozzle | NOZZLE SIZE (Stream Height: 3m) | | | | | | | | |
| | 3.57 mm x 2.38 mm (9/64" x 3/32") 7° | | 3.97 mm x 2.38 mm (5/32" x 3/32") 7° | | 4.37 mm x 2.38 mm (11/64" x 3/32") 7° | | 4.76 mm x 2.38 mm (3/16" x 3/32") 7° | | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | |
| 1.7 | 13.0 | 0.26 | 0.95 | 13.4 | 0.30 | 1.09 | 13.9 | 0.35 | 1.27 |
| 2.0 | 13.2 | 0.29 | 1.03 | 13.7 | 0.33 | 1.18 | 14.0 | 0.38 | 1.36 |
| 2.5 | 13.6 | 0.31 | 1.13 | 14.1 | 0.37 | 1.32 | 14.4 | 0.42 | 1.52 |
| 3.0 | 14.0 | 0.35 | 1.24 | 14.5 | 0.40 | 1.45 | 14.8 | 0.46 | 1.65 |
| 3.5 | 14.2 | 0.37 | 1.35 | 15.0 | 0.43 | 1.55 | 15.3 | 0.50 | 1.80 |
| 4.0 | 14.4 | 0.40 | 1.43 | 15.3 | 0.46 | 1.65 | 15.6 | 0.53 | 1.92 |
| 4.5 | 14.6 | 0.42 | 1.52 | 15.6 | 0.49 | 1.77 | 15.9 | 0.56 | 2.03 |
| 5.0 | 14.9 | 0.44 | 1.60 | 15.8 | 0.52 | 1.86 | 16.3 | 0.60 | 2.15 |
| 5.5 | 15.2 | 0.47 | 1.70 | 16.0 | 0.55 | 1.98 | 16.8 | 0.63 | 2.27 |
| | | | | | | | 17.2 | 0.73 | 2.61 |
| | | | | | | | 17.2 | 0.83 | 2.98 |

* Nozzles must be purchased separately. See chart on previous page.

30PWH

3/4" 19mm Full Circle, Aluminum Arm Impact Sprinkler

- Durable die-cast, anodized, aluminum arm
- Stainless steel springs and fulcrum pin
- Aluminum arm allows for smaller nozzles and lower pressures

Features

- Chemically resistant washers

Benefits

- Wide range of flow rates
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 3/4" (19mm) Male NPT, Brass
- Trajectory Angle: 27°
- Operating Range: 25-80 psi (1.7-5.5 bar)
- Flow Rate: 1.7-5.5 gpm (0.39-1.22 m³/h)
- Radius: 38-46 ft. (11.74-14.03 meters)
- Nozzle Port: 1/4" Female NPT
- Spreader Nozzle Port: 1/8" Female NPT

| Straight Bore Nozzle (SBN-3*) | | | | | | | | |
|-------------------------------|-------------|------|------|------|-------|------|-------|------|
| psi @ Nozzle | NOZZLE SIZE | | | | | | | |
| | 7/64" | | 1/8" | | 9/64" | | 5/32" | |
| 25 | 38 | 1.70 | 39 | 2.30 | 40 | 2.90 | 41 | 3.50 |
| 30 | 39 | 1.90 | 39 | 2.50 | 40 | 3.20 | 42 | 3.90 |
| 35 | 39 | 2.10 | 40 | 2.70 | 41 | 3.40 | 43 | 4.20 |
| 40 | 39 | 2.20 | 40 | 2.90 | 41 | 3.60 | 44 | 4.50 |
| 45 | 40 | 2.30 | 41 | 3.10 | 42 | 3.80 | 44 | 4.70 |
| 50 | 40 | 2.40 | 41 | 3.20 | 42 | 4.00 | 45 | 5.00 |
| 55 | 40 | 2.60 | 42 | 3.40 | 43 | 4.20 | 45 | 5.20 |
| 60 | 41 | 2.70 | 42 | 3.60 | 43 | 4.40 | 46 | 5.50 |
| 65 | 41 | 2.80 | 43 | 3.70 | 44 | 4.70 | - | - |
| 70 | 41 | 2.90 | 43 | 3.80 | 44 | 4.80 | - | - |
| 75 | 41 | 3.00 | 43 | 4.00 | - | - | - | - |
| 80 | 42 | 3.10 | 43 | 4.10 | - | - | - | - |

| Straight Bore Nozzle (SBN-3*) | | | | | | | | | METRIC | | | |
|-------------------------------|-----------------|---------------|----------------|----------------|---------------|----------------|-----------------|---------------|-----------------------|-----------------|---------------|----------------|
| bar @ Nozzle | NOZZLE SIZE | | | | | | | | (Stream Height: 2.7m) | | | |
| | 2.78 mm (7/64") | | | 3.18 mm (1/8") | | | 3.57 mm (9/64") | | | 3.97 mm (5/32") | | |
| | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) |
| 1.7 | 11.7 | 0.11 | 0.39 | 11.9 | 0.15 | 0.52 | 12.2 | 0.18 | 0.66 | 12.5 | 0.22 | 0.79 |
| 2.0 | 11.9 | 0.12 | 0.42 | 12.0 | 0.16 | 0.56 | 12.3 | 0.20 | 0.71 | 12.9 | 0.24 | 0.87 |
| 2.5 | 11.9 | 0.13 | 0.48 | 12.2 | 0.17 | 0.62 | 12.5 | 0.22 | 0.78 | 13.3 | 0.27 | 0.97 |
| 3.0 | 12.1 | 0.14 | 0.52 | 12.5 | 0.19 | 0.69 | 12.8 | 0.24 | 0.85 | 13.5 | 0.29 | 1.05 |
| 3.5 | 12.2 | 0.15 | 0.55 | 12.7 | 0.20 | 0.73 | 13.0 | 0.25 | 0.92 | 13.7 | 0.32 | 1.14 |
| 4.0 | 12.4 | 0.17 | 0.60 | 12.9 | 0.22 | 0.80 | 13.2 | 0.27 | 0.98 | 14.0 | 0.34 | 1.22 |
| 4.5 | 12.5 | 0.18 | 0.64 | 13.1 | 0.23 | 0.84 | 13.4 | 0.30 | 1.07 | - | - | - |
| 5.0 | 12.6 | 0.19 | 0.67 | 13.2 | 0.25 | 0.89 | - | - | - | - | - | - |
| 5.5 | 12.8 | 0.20 | 0.70 | 13.3 | 0.26 | 0.93 | - | - | - | - | - | - |

* Nozzles must be purchased separately. See chart below.



Part Numbers and Ordering Information

| Sprinkler Only | |
|------------------------------------|---------------|
| Sprinkler without Nozzle with Plug | A11355 |

| 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-3 | 105842-XX | 07 | 08 | 09 | 10 |
| Brass Straight Bore Nozzle with Vane | SBN-3V | 106131-XX | 07 | 08 | 09 | 10 |

Bold nozzle size number denotes the most common nozzle choice.

14070H

3/4" 19mm Full Circle, Brass Impact Sprinkler

- Heavy duty brass construction
- Extra large body and barrel
- Stainless steel springs and fulcrum pin

Features

- Chemically resistant washers
- Dual nozzle ports

Benefits

- Extra large body accommodates wide range of flow rates and nozzles
- Long nozzle barrel increases distance of throw
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 3/4" (19mm) Male NPT, Brass
- Trajectory Angle: 27°
- Operating Range: 25-80 psi (1.7-5.5 bar)
- Flow Rate: 4.2-23 gpm (0.97-5.34 m³/h)
- Radius: 44-71 ft. (13.57-22.10 meters)
- Nozzle Port: 1/4" Female NPT
- Spreader Nozzle Port: 1/8" Female NPT



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

| psi@ Nozzle | NOZZLE SIZE | | | | | | | | (Stream Height: 10 ft.) | |
|-------------|-----------------|------------------|-----------------|------------------|----------------|------------------|-----------------|-----------------------|-------------------------|-----------------------|
| | 3/16" x 1/8-20" | 13/64" x 1/8-20" | 7/32" x 1/8-20" | 15/64" x 1/8-20" | 1/4" x 1/8-20" | 17/64" x 1/8-20" | 9/32" x 1/8-20" | Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) |
| 25 | 44 | 7.40 | 45 | 8.30 | 46 | 9.20 | 46 | 10.30 | 47 | 11.40 |
| 30 | 47 | 8.10 | 48 | 9.10 | 49 | 10.10 | 50 | 11.20 | 51 | 12.40 |
| 35 | 49 | 8.70 | 50 | 9.80 | 51 | 10.90 | 52 | 12.10 | 52 | 13.40 |
| 40 | 50 | 9.30 | 51 | 10.50 | 52 | 11.70 | 53 | 13.00 | 54 | 14.40 |
| 45 | 51 | 9.90 | 52 | 11.10 | 54 | 12.40 | 55 | 13.80 | 56 | 15.20 |
| 50 | 52 | 10.40 | 53 | 11.70 | 55 | 13.10 | 56 | 14.50 | 57 | 16.10 |
| 55 | 53 | 10.90 | 54 | 12.30 | 56 | 13.70 | 57 | 15.20 | 59 | 16.90 |
| 60 | 53 | 11.40 | 55 | 12.80 | 57 | 14.30 | 58 | 15.90 | 60 | 17.60 |
| 65 | 54 | 11.90 | 56 | 13.30 | 58 | 14.90 | 59 | 16.50 | 61 | 18.30 |
| 70 | 55 | 12.40 | 57 | 13.80 | 59 | 15.40 | 60 | 17.20 | 62 | 19.00 |
| 75 | 55 | 12.80 | 58 | 14.30 | 60 | 16.00 | 61 | 17.80 | 63 | 19.70 |
| 80 | 56 | 13.20 | 58 | 14.80 | 61 | 16.50 | 62 | 18.40 | 64 | 20.30 |

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

| psi@ Nozzle | NOZZLE SIZE | | | | | | | | | (Stream Height: 10 ft.) | | |
|-------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|----------------------------|------------------------------|-----------------------------|-------------------------|-----------------------|-------|
| | 5/32" Rad. Flow (ft.) (gpm) | 11/64" Rad. Flow (ft.) (gpm) | 3/16" Rad. Flow (ft.) (gpm) | 13/64" Rad. Flow (ft.) (gpm) | 7/32" Rad. Flow (ft.) (gpm) | 15/64" Rad. Flow (ft.) (gpm) | 1/4" Rad. Flow (ft.) (gpm) | 17/64" Rad. Flow (ft.) (gpm) | 9/32" Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) | |
| 25 | - | - | - | - | 44 | 5.10 | 45 | 6.00 | 46 | 7.00 | 46 | 8.00 |
| 30 | - | - | - | - | 47 | 5.60 | 48 | 6.60 | 49 | 7.60 | 50 | 8.80 |
| 35 | 46 | 4.20 | 47 | 5.10 | 49 | 6.10 | 50 | 7.10 | 51 | 8.20 | 52 | 9.50 |
| 40 | 46 | 4.50 | 48 | 5.40 | 50 | 6.50 | 51 | 7.60 | 52 | 8.80 | 53 | 10.80 |
| 45 | 47 | 4.80 | 49 | 5.80 | 51 | 6.90 | 52 | 8.10 | 54 | 9.30 | 55 | 10.70 |
| 50 | 48 | 5.00 | 50 | 6.10 | 52 | 7.20 | 53 | 8.50 | 55 | 9.80 | 56 | 11.30 |
| 55 | 48 | 5.30 | 50 | 6.40 | 53 | 7.60 | 54 | 8.90 | 56 | 10.30 | 54 | 11.80 |
| 60 | 49 | 5.50 | 51 | 6.70 | 53 | 7.90 | 55 | 9.30 | 57 | 10.80 | 58 | 12.40 |
| 65 | 49 | 5.70 | 52 | 6.90 | 54 | 8.30 | 56 | 9.70 | 58 | 11.20 | 61 | 14.70 |
| 70 | 50 | 5.90 | 52 | 7.20 | 55 | 8.60 | 57 | 10.00 | 59 | 11.60 | 62 | 15.20 |
| 75 | 50 | 6.20 | 53 | 7.40 | 55 | 8.90 | 58 | 10.40 | 60 | 12.10 | 61 | 13.80 |
| 80 | 50 | 6.40 | 53 | 7.70 | 56 | 9.10 | 58 | 10.70 | 61 | 12.40 | 62 | 14.30 |

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

| psi@ Nozzle | NOZZLE SIZE | | | | | | | | (Stream Height: 10 ft.) | |
|-------------|-----------------|------------------|-----------------|------------------|----------------|------------------|-----------------|-----------------------|-------------------------|-----------------------|
| | 3/16" x 1/8-20" | 13/64" x 1/8-20" | 7/32" x 1/8-20" | 15/64" x 1/8-20" | 1/4" x 1/8-20" | 17/64" x 1/8-20" | 9/32" x 1/8-20" | Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) |
| 25 | 47 | 7.40 | 49 | 8.30 | 51 | 9.20 | 51 | 9.80 | 51 | 10.80 |
| 30 | 50 | 8.10 | 51 | 9.10 | 54 | 10.10 | 54 | 10.60 | 55 | 11.80 |
| 35 | 51 | 8.70 | 53 | 9.80 | 55 | 10.90 | 56 | 11.50 | 57 | 12.70 |
| 40 | 52 | 9.30 | 54 | 10.50 | 56 | 11.70 | 57 | 12.40 | 59 | 13.70 |
| 45 | 53 | 9.90 | 55 | 11.10 | 57 | 12.40 | 59 | 13.10 | 60 | 14.40 |
| 50 | 53 | 10.40 | 56 | 11.70 | 58 | 13.10 | 60 | 13.80 | 62 | 15.30 |
| 55 | 54 | 10.90 | 56 | 12.30 | 59 | 13.70 | 61 | 14.40 | 63 | 16.10 |
| 60 | 55 | 11.40 | 57 | 12.80 | 60 | 14.30 | 62 | 15.10 | 64 | 16.70 |
| 65 | 55 | 11.90 | 58 | 13.30 | 61 | 14.90 | 63 | 15.70 | 65 | 17.40 |
| 70 | 56 | 12.40 | 58 | 13.80 | 62 | 15.40 | 64 | 16.30 | 66 | 18.10 |
| 75 | 56 | 12.80 | 59 | 14.30 | 62 | 16.00 | 65 | 16.90 | 67 | 18.70 |
| 80 | 57 | 13.20 | 60 | 14.80 | 63 | 16.50 | 66 | 17.50 | 69 | 19.30 |

* Nozzles must be purchased separately. See chart below.

Part Numbers and Ordering Information

| Sprinkler Only | |
|---------------------------------------|---------------|
| Sprinkler without Nozzle without Plug | A12800 |

| Nozzle Only | | XX = Nozzle Size | | | | | | | | | | |
|--------------------------------------|-----------------|------------------|-----------|--------|-------|-----------|-------|--------|------|--------|-------|----|
| | U.S. Standard | 1/8" | 5/32" | 11/64" | 3/16" | 13/64" | 7/32" | 15/64" | 1/4" | 17/64" | 9/32" | |
| Brass Straight Bore Nozzle | SBN-3 | 105842-XX | — | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Brass Straight Bore Nozzle with Vane | SBN-3V | 106131-XX | — | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Brass 20° Low Angle Spreader Nozzle | LAN-1-20 | 100226-XX | 08 | — | — | — | — | — | — | — | — | — |
| Brass Plug | | 100255 | | | | | | | | | | |

Bold nozzle size number denotes the most common nozzle choice.

Impact Sprinklers

3/4" (19mm) Full Circle

14070H (Continued)

| Straight Bore Nozzle (SBN-3) with Spreader (LAN-1-20)* | | | | | | | | | | | | METRIC | | | | | | | | | |
|--|---|--|---|--|--|--|---|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|
| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | (Stream Height: 3m) | | | | | | | | | |
| | 4.76 mm x 3.18 mm (3/16" x 1/8") 20° | 5.16 mm x 3.18 mm (13/64" x 1/8") 20° | 5.56 mm x 3.18 mm (7/32" x 1/8") 20° | 5.95 mm x 3.18 mm (15/64" x 1/8") 20° | 6.35 mm x 3.18 mm (1/4" x 1/8") 20° | 6.75 mm x 3.18 mm (17/64" x 1/8") 20° | 7.14 mm x 3.18 mm (9/32" x 1/8") 20° | Rad. | Flow | Flow | Rad. | Flow | Flow | Rad. | Flow | Flow | | | | | |
| 1.7 | 13.6 | 0.47 | 1.68 | 13.9 | 0.52 | 1.89 | 14.0 | 0.58 | 2.09 | 14.2 | 0.65 | 2.34 | 14.3 | 0.72 | 2.59 | 14.5 | 0.79 | 2.84 | 14.6 | 0.87 | 3.13 |
| 2.0 | 14.3 | 0.50 | 1.81 | 14.6 | 0.56 | 2.03 | 14.9 | 0.63 | 2.25 | 15.0 | 0.70 | 2.50 | 15.3 | 0.77 | 2.77 | 15.4 | 0.85 | 3.06 | 15.6 | 0.94 | 3.37 |
| 2.5 | 15.0 | 0.56 | 2.01 | 15.4 | 0.63 | 2.26 | 15.7 | 0.70 | 2.52 | 16.0 | 0.78 | 2.80 | 16.2 | 0.86 | 3.10 | 16.4 | 0.95 | 3.42 | 16.6 | 1.05 | 3.76 |
| 3.0 | 15.5 | 0.61 | 2.21 | 15.9 | 0.69 | 2.48 | 16.3 | 0.77 | 2.77 | 16.6 | 0.86 | 3.08 | 16.9 | 0.94 | 3.40 | 17.2 | 1.04 | 3.75 | 17.5 | 1.15 | 4.13 |
| 3.5 | 15.9 | 0.66 | 2.38 | 16.4 | 0.74 | 2.68 | 16.8 | 0.83 | 3.00 | 17.1 | 0.92 | 3.32 | 17.6 | 1.02 | 3.68 | 17.9 | 1.12 | 4.05 | 18.2 | 1.24 | 4.46 |
| 4.0 | 16.2 | 0.71 | 2.54 | 16.8 | 0.79 | 2.86 | 17.4 | 0.89 | 3.19 | 17.7 | 0.99 | 3.55 | 18.2 | 1.09 | 3.93 | 18.4 | 1.20 | 4.33 | 18.9 | 1.32 | 4.75 |
| 4.5 | 16.6 | 0.75 | 2.71 | 17.2 | 0.84 | 3.03 | 17.8 | 0.94 | 3.39 | 18.1 | 1.04 | 3.75 | 18.6 | 1.16 | 4.16 | 19.1 | 1.28 | 4.60 | 19.4 | 1.40 | 5.05 |
| 5.0 | 16.8 | 0.79 | 2.86 | 17.5 | 0.89 | 3.19 | 18.1 | 0.99 | 3.56 | 18.6 | 1.10 | 3.97 | 19.1 | 1.22 | 4.39 | 19.6 | 1.35 | 4.86 | 19.9 | 1.48 | 5.34 |
| 5.5 | 17.2 | 0.83 | 3.00 | 17.8 | 0.93 | 3.36 | 18.6 | 1.04 | 3.75 | 19.1 | 1.16 | 4.18 | 19.7 | 1.28 | 4.61 | - | - | - | - | - | - |

| Straight Bore Nozzle (SBN-3V) with Plug* | | | | | | | | | | | | METRIC | | | | | | | | | | | | | | | |
|--|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|-------------------|---------------------|--------------------|------|------|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | (Stream Height: 3m) | | | | | | | | | | | | | | | |
| | 3.97 mm (5/32") | 4.37 mm (11/64") | 4.76 mm (3/16") | 5.16 mm (13/64") | 5.56 mm (7/32") | 5.95 mm (15/64") | 6.35 mm (1/4") | 6.75 mm (17/64") | 7.14 mm (9/32") | Rad. | Flow | Flow | Rad. | Flow | Flow | | | | | | | | | | | | |
| 1.7 | - | - | - | - | - | 13.6 | 0.32 | 1.16 | 13.9 | 0.38 | 1.36 | 14.0 | 0.44 | 1.59 | 14.2 | 0.50 | 1.82 | 14.3 | 0.57 | 2.07 | 14.5 | 0.65 | 2.34 | 14.6 | 0.73 | 2.61 | |
| 2.0 | - | - | - | - | - | 14.3 | 0.35 | 1.25 | 14.6 | 0.41 | 1.47 | 14.9 | 0.47 | 1.70 | 15.0 | 0.54 | 1.96 | 15.3 | 0.62 | 2.23 | 15.4 | 0.70 | 2.50 | 15.6 | 0.78 | 2.81 | |
| 2.5 | 14.1 | 0.27 | 0.97 | 14.4 | 0.33 | 1.18 | 15.0 | 0.39 | 1.41 | 15.4 | 0.46 | 1.64 | 15.7 | 0.53 | 1.90 | 16.0 | 0.61 | 2.19 | 16.2 | 0.69 | 2.49 | 16.4 | 0.78 | 2.80 | 16.6 | 0.87 | 3.14 |
| 3.0 | 14.3 | 0.30 | 1.07 | 14.8 | 0.36 | 1.29 | 15.5 | 0.43 | 1.54 | 15.9 | 0.50 | 1.81 | 16.3 | 0.58 | 2.08 | 16.6 | 0.66 | 2.39 | 16.9 | 0.76 | 2.72 | 17.2 | 0.86 | 3.08 | 17.5 | 0.96 | 3.44 |
| 3.5 | 14.7 | 0.32 | 1.15 | 15.3 | 0.39 | 1.40 | 15.9 | 0.46 | 1.65 | 16.4 | 0.54 | 1.94 | 16.8 | 0.62 | 2.24 | 17.1 | 0.72 | 2.58 | 17.6 | 0.82 | 2.95 | 17.9 | 0.92 | 3.32 | 18.2 | 1.04 | 3.73 |
| 4.0 | 14.9 | 0.34 | 1.23 | 15.5 | 0.42 | 1.49 | 16.2 | 0.49 | 1.77 | 16.8 | 0.58 | 2.08 | 17.4 | 0.67 | 2.41 | 17.7 | 0.77 | 2.76 | 18.2 | 0.87 | 3.15 | 18.4 | 0.99 | 3.55 | 18.9 | 1.11 | 3.98 |
| 4.5 | 15.1 | 0.36 | 1.30 | 15.9 | 0.44 | 1.57 | 16.6 | 0.52 | 1.89 | 17.2 | 0.61 | 2.21 | 17.8 | 0.71 | 2.55 | 18.1 | 0.82 | 2.93 | 18.6 | 0.93 | 3.34 | 19.1 | 1.04 | 3.75 | 19.4 | 1.17 | 4.21 |
| 5.0 | 15.2 | 0.38 | 1.37 | 16.1 | 0.46 | 1.66 | 16.8 | 0.55 | 1.99 | 17.5 | 0.64 | 2.32 | 18.1 | 0.75 | 2.69 | 18.6 | 0.86 | 3.09 | 19.1 | 0.97 | 3.51 | 19.6 | 1.10 | 3.97 | 19.8 | 1.23 | 4.42 |
| 5.5 | 15.4 | 0.40 | 1.45 | 16.3 | 0.49 | 1.75 | 17.2 | 0.57 | 2.07 | 17.8 | 0.68 | 2.43 | 18.6 | 0.78 | 2.82 | 19.1 | 0.90 | 3.25 | 19.7 | 1.03 | 3.70 | - | - | - | - | - | - |

| Straight Bore Nozzle with Vane (SBN-3V) with Spreader (LAN-1-20)* | | | | | | | | | | | | METRIC | | | | | | | | | |
|---|---|--|---|--|--|--|---|------|------|------|------|---------------------|------|------|------|------|------|------|------|------|------|
| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | (Stream Height: 3m) | | | | | | | | | |
| | 4.76 mm x 3.18 mm (3/16" x 1/8") 20° | 5.16 mm x 3.18 mm (13/64" x 1/8") 20° | 5.56 mm x 3.18 mm (7/32" x 1/8") 20° | 5.95 mm x 3.18 mm (15/64" x 1/8") 20° | 6.35 mm x 3.18 mm (1/4" x 1/8") 20° | 6.75 mm x 3.18 mm (17/64" x 1/8") 20° | 7.14 mm x 3.18 mm (9/32" x 1/8") 20° | Rad. | Flow | Flow | Rad. | Flow | Flow | Rad. | Flow | Flow | | | | | |
| 1.7 | 14.5 | 0.47 | 1.68 | 14.9 | 0.52 | 1.89 | 15.5 | 0.58 | 2.09 | 15.5 | 0.62 | 2.23 | 15.7 | 0.68 | 2.45 | 15.5 | 0.75 | 2.70 | 15.5 | 0.83 | 2.98 |
| 2.0 | 15.1 | 0.50 | 1.81 | 15.5 | 0.56 | 2.03 | 16.3 | 0.63 | 2.25 | 16.4 | 0.66 | 2.37 | 16.5 | 0.73 | 2.63 | 16.5 | 0.81 | 2.90 | 16.5 | 0.89 | 3.19 |
| 2.5 | 15.6 | 0.56 | 2.01 | 16.2 | 0.63 | 2.26 | 17.0 | 0.70 | 2.52 | 17.2 | 0.74 | 2.66 | 17.5 | 0.82 | 2.94 | 17.7 | 0.90 | 3.25 | 17.7 | 0.99 | 3.58 |
| 3.0 | 16.1 | 0.61 | 2.21 | 16.7 | 0.69 | 2.48 | 17.4 | 0.77 | 2.77 | 17.8 | 0.81 | 2.93 | 18.3 | 0.90 | 3.22 | 18.6 | 0.99 | 3.56 | 18.7 | 1.09 | 3.92 |
| 3.5 | 16.4 | 0.66 | 2.38 | 17.1 | 0.74 | 2.68 | 17.9 | 0.83 | 3.00 | 18.4 | 0.88 | 3.15 | 18.9 | 0.97 | 3.50 | 19.3 | 1.07 | 3.85 | 19.6 | 1.18 | 4.23 |
| 4.0 | 16.7 | 0.71 | 2.54 | 17.4 | 0.79 | 2.86 | 18.3 | 0.89 | 3.19 | 18.9 | 0.93 | 3.37 | 19.5 | 1.04 | 3.74 | 20.1 | 1.14 | 4.11 | 20.5 | 1.25 | 4.51 |
| 4.5 | 16.9 | 0.75 | 2.71 | 17.7 | 0.84 | 3.03 | 18.8 | 0.94 | 3.39 | 19.4 | 0.99 | 3.57 | 20.0 | 1.10 | 3.96 | 20.7 | 1.21 | 4.37 | 21.2 | 1.33 | 4.80 |
| 5.0 | 17.1 | 0.79 | 2.86 | 17.9 | 0.89 | 3.19 | 19.0 | 0.99 | 3.56 | 19.7 | 1.05 | 3.77 | 20.4 | 1.16 | 4.18 | 21.3 | 1.28 | 4.62 | 22.1 | 1.40 | 5.05 |
| 5.5 | 17.4 | 0.83 | 3.00 | 18.3 | 0.93 | 3.36 | 19.4 | 1.04 | 3.75 | 20.1 | 1.10 | 3.97 | 21.0 | 1.22 | 4.38 | - | - | - | - | - | - |

* Nozzles must be purchased separately. See chart below.

Part Numbers and Ordering Information

| Sprinkler Only | Nozzle Only | XX = Nozzle Size | | | | | | | | | | | |
|---------------------------------------|--------------------------------------|------------------|-----------|-----------|---------|---------|-----------|---------|---------|---------|---------|---------|----|
| Sprinkler without Nozzle without Plug | A12800 | Metric | 3.18 mm | 3.97 mm | 4.37 mm | 4.76 mm | 5.16 mm | 5.56 mm | 5.95 mm | 6.35 mm | 6.75 mm | 7.14 mm | |
| | Brass Straight Bore Nozzle | SBN-3 | 105842-XX | - | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | Brass Straight Bore Nozzle with Vane | SBN-3V | 106131-XX | - | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| | Brass 20° Low Angle Spreader Nozzle | LAN-1-20 | 100226-XX | 08 | - | - | - | - | - | - | - | - | - |
| | Brass Plug | 100255 | | | | | | | | | | | |

Bold nozzle size number denotes the most common nozzle choice.

30FH / 30FWH

3/4" 19mm Full Circle, Brass Impact Sprinkler

- Heavy duty brass construction
- Stainless steel springs and fulcrum pin
- Chemically resistant, PTFE washers

Features

- Dual nozzle ports

Benefits

- PTFE washers allow for faster rotation times with a smaller nozzle at lower pressures
- Wide range of flow rates
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 3/4" (19mm) Male NPT, Brass
- 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: 39-43 ft. (11.90-13.27 meters)
- Nozzle Port: 1/4" Female NPT
- Spreader Nozzle Port: 1/8" Female NPT

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 | |

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

| psi@ Nozzle | NOZZLE SIZE (Stream Height: 2.7m) | | |
|-------------|-----------------------------------|------------|--------------------------|
| | 3.18 mm (1/8") | | |
| | Rad. (m) | Flow (l/s) | Flow (m ³ /h) |
| 1.7 | 11.9 | 0.14 | 0.51 |
| 2.0 | 12.0 | 0.15 | 0.55 |
| 2.5 | 12.2 | 0.17 | 0.62 |
| 3.0 | 12.5 | 0.19 | 0.68 |
| 3.5 | 12.7 | 0.20 | 0.73 |
| 4.0 | 12.9 | 0.22 | 0.78 |
| 4.5 | 13.1 | 0.23 | 0.83 |
| 5.0 | 13.2 | 0.24 | 0.87 |
| 5.5 | 13.3 | 0.25 | 0.92 |

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

| psi@ Nozzle | NOZZLE SIZE (Stream Height: 2.7m) | | |
|-------------|--------------------------------------|------------|--------------------------|
| | 3.18 mm x 2.38 mm (1/8" x 3/32") 20° | | |
| | Rad. (m) | Flow (l/s) | Flow (m ³ /h) |
| 1.7 | 11.9 | 0.22 | 0.80 |
| 2.0 | 12.0 | 0.24 | 0.86 |
| 2.5 | 12.2 | 0.27 | 0.97 |
| 3.0 | 12.5 | 0.30 | 1.06 |
| 3.5 | 12.7 | 0.32 | 1.15 |
| 4.0 | 12.9 | 0.34 | 1.23 |
| 4.5 | 13.1 | 0.36 | 1.31 |
| 5.0 | 13.2 | 0.39 | 1.39 |
| 5.5 | 13.3 | 0.41 | 1.47 |

* Nozzles must be purchased separately. See chart below.



Part Numbers and Ordering Information

| 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 | | |

Bold nozzle size number denotes the most common nozzle choice.

Impact Sprinklers

1" (25mm) Full Circle

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION

70CH / 70CHM

1" 25 mm Full Circle, Brass Impact Sprinkler

- Heavy duty brass construction
- 70CH Female NPT Bearing
- 70CHM has Male bearing Integral Straightening Vanes

Features

- Stainless steel springs and fulcrum pin
- Chemically resistant washers
- Dual nozzle ports

Benefits

- Low angle ideal for windy conditions
- Integral straightening vanes increase distance of throw
- Wide range of flow rates
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1" (25mm) Female NPT, Brass (70CH)
- Bearing: 1" (25mm) Male NPT, Brass (70CHM)
- Trajectory Angle: 21°
- Operating Range: 40-80 psi (2.8-5.5 bar)
- Flow Rate: 8.8-45.8 gpm (2.00-10.40 m³/h)
- Radius: 57-82 ft. (17.39-25.01 meters)
- Nozzle Port: 3/8" Female NPT
- Spreader Nozzle Port: 3/8" Female NPT

**(Spreader Nozzle Port requires
Spreader Bushing to accept LAN-20
Nozzles)**

Straight Bore Nozzle (SBN-4) with Plug Performance*

| psi@ Nozzle | NOZZLE SIZE | | | | | | | (Stream Height: 8 ft.) | | | |
|-------------|-------------|----------|----------|----------|----------|----------|----------|------------------------|------------|------|------------|
| | 7/32" | 1/4" | 9/32" | 5/16" | 11/32" | 3/8" | 13/32" | Rad. | Flow (gpm) | Rad. | Flow (gpm) |
| 40 | 57 8.80 | 60 11.50 | 62 14.60 | 65 17.70 | 66 21.10 | 68 24.40 | 70 28.50 | | | | |
| 45 | 58 9.40 | 61 12.20 | 64 15.50 | 66 18.90 | 68 22.50 | 70 26.00 | 72 30.40 | | | | |
| 50 | 59 9.90 | 62 12.90 | 65 16.30 | 68 20.00 | 70 23.80 | 71 27.50 | 73 32.30 | | | | |
| 55 | 60 10.40 | 63 13.60 | 66 17.20 | 70 21.00 | 71 25.00 | 73 29.10 | 75 34.00 | | | | |
| 60 | 61 10.90 | 64 14.20 | 67 18.00 | 71 22.00 | 73 26.20 | 74 30.60 | 77 35.70 | | | | |
| 65 | 62 11.40 | 65 14.80 | 68 18.80 | 72 23.00 | 74 27.40 | 76 32.00 | 78 37.30 | | | | |
| 70 | 63 11.80 | 66 15.40 | 70 19.50 | 73 23.90 | 76 28.50 | 77 33.20 | 79 38.90 | | | | |
| 75 | 64 12.20 | 67 16.00 | 71 20.30 | 74 24.80 | 77 29.60 | 78 34.50 | 81 40.40 | | | | |
| 80 | 65 12.60 | 68 16.50 | 72 20.90 | 75 25.70 | 78 30.60 | 80 35.70 | 82 41.80 | | | | |

Straight Bore Nozzle (SBN-4) with Spreader (LAN-1-20) Performance*

| psi@ Nozzle | NOZZLE SIZE | | | | | | | (Stream Height: 8 ft.) | | | |
|-------------|--------------------|-------------------|--------------------|--------------------|---------------------|-------------------|---------------------|------------------------|------------|------|------------|
| | 7/32" x 1/8-20" | 1/4" x 1/8-20" | 9/32" x 1/8-20" | 5/16" x 1/8-20" | 11/32" x 1/8-20" | 3/8" x 1/8-20" | 13/32" x 1/8-20" | Rad. | Flow (gpm) | Rad. | Flow (gpm) |
| 40 | 57 11.60 | 60 14.30 | 62 17.40 | 65 20.50 | 61 23.90 | 68 27.20 | 70 31.40 | | | | |
| 45 | 58 12.40 | 61 15.20 | 64 18.50 | 66 21.90 | 68 25.50 | 70 29.00 | 72 33.40 | | | | |
| 50 | 59 13.00 | 62 16.00 | 65 19.40 | 68 23.10 | 70 26.90 | 71 30.60 | 73 35.50 | | | | |
| 55 | 60 13.70 | 63 16.90 | 66 20.40 | 70 24.30 | 71 28.30 | 73 32.40 | 75 37.40 | | | | |
| 60 | 61 14.30 | 64 17.60 | 67 21.40 | 71 25.40 | 73 29.60 | 74 34.00 | 77 39.20 | | | | |
| 65 | 62 15.00 | 65 18.40 | 69 22.40 | 72 26.60 | 74 31.00 | 76 35.60 | 78 40.90 | | | | |
| 70 | 63 15.50 | 66 19.10 | 70 23.20 | 73 27.60 | 75 32.20 | 77 36.90 | 79 42.70 | | | | |
| 75 | 64 16.00 | 67 19.80 | 71 24.10 | 74 28.60 | 77 33.40 | 78 38.30 | 81 44.30 | | | | |
| 80 | 65 16.50 | 68 20.40 | 72 24.80 | 75 29.60 | 78 34.50 | 80 39.60 | 82 45.80 | | | | |

* Nozzles must be purchased separately. See Chart below.



Part Numbers and Ordering Information

| Sprinkler Only | |
|--|---------------|
| Sprinkler without Nozzle, Without Plug,Without Bushing; Female body (70CH) | A20000 |
| Sprinkler without Nozzle, Without Plug,Without Bushing; Male body (70CHM) | A20030 |

| Nozzle Only | | | XX = Nozzle Size | | | | | | | |
|--|----------|------------------|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| U.S. Standard | | | 1/8" | 7/32" | 1/4" | 9/32" | 5/16" | 11/32" | 3/8" | 13/32" |
| Metric | | | 1.59mm | 1.70mm | 1.78mm | 1.98mm | 2.18mm | 2.38mm | 2.78mm | 3.18mm |
| Brass Straight Bore Nozzle | SBN-4 | 100382-XX | — | 14 | 16 | 18 | 20 | 22 | 24 | 26 |
| Brass Spreader Bushing | SPB-1 | 100418 | Needed for use with LAN-1-20 | | | | | | | |
| Brass 20° Low Angle Spreader Nozzle | LAN-1-20 | 100226 | 08 | — | — | — | — | — | — | — |
| Brass Plug | | 100417 | | | | | | | | |

Bold nozzle size number denotes the most common nozzle choice.

| Straight Bore Nozzle (SBN-4) with Plug Performance* | | | | | | | | | | | METRIC | | | | | | | | | | |
|---|--------------------|----------------|-------------|-------------------|----------------|-------------|--------------------|----------------|-------------|--------------------|-----------------------|-------------|---------------------|----------------|-------------|-------------------|----------------|-------------|----------------------|----------------|------|
| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | (Stream Height: 2.4m) | | | | | | | | | | |
| | 5.56 mm (7/32") | | | 6.35 mm (1/4") | | | 7.14 mm (9/32") | | | 7.94 mm (5/16") | | | 8.73 mm (11/32") | | | 9.53 mm (3/8") | | | 10.32 mm (13/32") | | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | |
| 2.8 | 17.4 | 0.56 | 2.00 | 18.3 | 0.73 | 2.61 | 19.1 | 0.92 | 3.32 | 19.8 | 1.12 | 4.02 | 20.3 | 1.33 | 4.79 | 20.7 | 1.54 | 5.54 | 21.3 | 1.80 | 6.47 |
| 3.0 | 17.7 | 0.58 | 2.09 | 18.5 | 0.76 | 2.72 | 19.4 | 0.96 | 3.46 | 20.1 | 1.17 | 4.21 | 20.6 | 1.39 | 5.01 | 21.2 | 1.61 | 5.79 | 21.8 | 1.88 | 6.77 |
| 3.5 | 18.2 | 0.63 | 2.26 | 18.9 | 0.82 | 2.95 | 20.0 | 1.04 | 3.73 | 20.8 | 1.27 | 4.58 | 21.4 | 1.51 | 5.45 | 21.9 | 1.75 | 6.30 | 22.5 | 2.05 | 7.39 |
| 4.0 | 18.6 | 0.67 | 2.43 | 19.4 | 0.88 | 3.17 | 20.5 | 1.12 | 4.01 | 21.6 | 1.36 | 4.90 | 22.1 | 1.62 | 5.84 | 22.5 | 1.89 | 6.81 | 23.3 | 2.21 | 7.95 |
| 4.5 | 19.1 | 0.72 | 2.59 | 19.8 | 0.94 | 3.37 | 21.0 | 1.19 | 4.28 | 22.1 | 1.45 | 5.23 | 22.7 | 1.73 | 6.23 | 23.2 | 2.02 | 7.28 | 23.9 | 2.35 | 8.47 |
| 5.0 | 19.5 | 0.76 | 2.72 | 20.3 | 0.99 | 3.56 | 21.5 | 1.26 | 4.52 | 22.6 | 1.54 | 5.53 | 23.3 | 1.83 | 6.60 | 23.8 | 2.14 | 7.69 | 24.3 | 2.45 | 8.82 |
| 5.5 | 19.8 | 0.79 | 2.86 | 20.7 | 1.04 | 3.75 | 21.9 | 1.32 | 4.75 | 23.0 | 1.62 | 5.84 | 23.8 | 1.93 | 6.95 | 24.5 | 2.25 | 8.11 | 25.0 | 2.64 | 9.49 |

| Straight Bore Nozzle (SBN-4) with Spreader (LAN-1-20) Performance* | | | | | | | | | | | METRIC | | | | | | | | | | |
|--|---|----------------|-------------|--|----------------|-------------|---|----------------|-------------|---|-----------------------|-------------|--|----------------|-------------|--|----------------|-------------|---|----------------|-------|
| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | (Stream Height: 2.4m) | | | | | | | | | | |
| | 5.56 mm x 3.18 mm (7/32" x 1/8") 20° | | | 6.35 mm x 3.18 mm (1/4" x 1/8") 20° | | | 7.14 mm x 3.18 mm (9/32" x 1/8") 20° | | | 7.94 mm x 3.18 mm (5/16" x 1/8") 20° | | | 8.73 mm x 3.18 mm (11/32" x 1/8") 20° | | | 9.53 mm x 3.18 mm (3/8" x 1/8") 20° | | | 10.32 mm x 3.18 mm (13/32" x 1/8") 20° | | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | |
| 2.8 | 17.4 | 0.73 | 2.63 | 18.3 | 0.90 | 3.25 | 19.1 | 1.10 | 3.95 | 19.8 | 1.29 | 4.66 | 20.3 | 1.51 | 5.43 | 20.7 | 1.72 | 6.18 | 21.3 | 1.98 | 7.13 |
| 3.0 | 17.7 | 0.77 | 2.76 | 18.5 | 0.94 | 3.39 | 19.4 | 1.15 | 4.13 | 20.1 | 1.35 | 4.88 | 20.6 | 1.58 | 5.68 | 21.2 | 1.80 | 6.46 | 21.8 | 2.07 | 7.45 |
| 3.5 | 18.2 | 0.83 | 2.98 | 18.9 | 1.02 | 3.66 | 20.0 | 1.23 | 4.44 | 20.8 | 1.47 | 5.29 | 21.4 | 1.71 | 6.16 | 21.9 | 1.95 | 7.01 | 22.5 | 2.26 | 8.13 |
| 4.0 | 18.6 | 0.89 | 3.19 | 19.4 | 1.09 | 3.93 | 20.5 | 1.32 | 4.77 | 21.6 | 1.57 | 5.67 | 22.1 | 1.83 | 6.60 | 22.5 | 2.10 | 7.57 | 23.3 | 2.43 | 8.74 |
| 4.5 | 19.1 | 0.95 | 3.41 | 19.8 | 1.16 | 4.19 | 21.0 | 1.42 | 5.10 | 22.1 | 1.68 | 6.05 | 22.7 | 1.96 | 7.05 | 23.2 | 2.25 | 8.10 | 23.9 | 2.58 | 9.29 |
| 5.0 | 19.5 | 0.99 | 3.58 | 20.3 | 1.23 | 4.42 | 21.5 | 1.49 | 5.37 | 22.6 | 1.77 | 6.38 | 23.3 | 2.07 | 7.45 | 23.8 | 2.37 | 8.54 | 24.3 | 2.69 | 9.67 |
| 5.5 | 19.8 | 1.04 | 3.75 | 20.7 | 1.29 | 4.63 | 21.9 | 1.56 | 5.63 | 23.0 | 1.87 | 6.72 | 23.8 | 2.18 | 7.84 | 24.5 | 2.50 | 8.99 | 25.0 | 2.89 | 10.40 |

* Nozzles must be purchased separately. See chart on previous page.

Impact Sprinklers

1 1/4" (32mm) Full Circle

80EHD

1 1/4" 32 mm Full Circle, Brass Impact Sprinkler

- Heavy duty brass construction
- Internal plastic straightening vane
- Stainless steel springs and fulcrum pin

Features

- Plastic bearing hood
- Chemically resistant washers
- Dual nozzle ports

Benefits

- Internal straightening vane increases distance of throw
- Plastic bearing hood protects spring and bearing sleeve from damage
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1 1/4" (32mm) Male NPT, Brass
- Trajectory Angle: 27°
- Operating Range: 25-100 psi (1.7-6.9 bar)
- Flow Rate: 17.1-127.7 gpm (3.88-29 m³/h)
- Radius: 61-116 ft. (18.6-35.4 meters)
- Nozzle Port: 3/4" Female NPT



Straight Bore Nozzle (SBN-5) 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" | | |
| 25 | 61 | 17.10 | 62 | 20.30 | 64 | 23.40 | 66 | 26.70 | 66 | 30.30 | 66 | 33.80 |
| 30 | 64 | 18.80 | 65 | 22.30 | 68 | 25.70 | 69 | 29.30 | 72 | 33.20 | 73 | 40.80 |
| 35 | 67 | 20.30 | 68 | 24.10 | 72 | 27.80 | 74 | 31.70 | 77 | 35.90 | 79 | 40.10 |
| 40 | 69 | 21.80 | 71 | 25.80 | 75 | 29.70 | 77 | 33.90 | 80 | 38.50 | 83 | 42.90 |
| 45 | 71 | 23.10 | 73 | 27.40 | 77 | 31.60 | 79 | 36.00 | 82 | 40.80 | 85 | 45.60 |
| 50 | 73 | 24.40 | 75 | 28.90 | 79 | 33.30 | 81 | 38.00 | 84 | 43.10 | 87 | 48.10 |
| 55 | 75 | 25.50 | 77 | 30.30 | 81 | 34.90 | 83 | 39.70 | 86 | 45.30 | 89 | 50.30 |
| 60 | 77 | 25.80 | 79 | 30.80 | 83 | 35.90 | 86 | 41.60 | 88 | 47.40 | 91 | 53.00 |
| 65 | 79 | 26.90 | 81 | 32.00 | 84 | 37.40 | 87 | 43.30 | 90 | 49.90 | 93 | 55.30 |
| 70 | 81 | 28.10 | 83 | 33.30 | 86 | 38.90 | 89 | 45.10 | 91 | 51.40 | 94 | 57.50 |
| 75 | 82 | 29.20 | 84 | 34.50 | 87 | 40.30 | 90 | 46.80 | 93 | 53.30 | 96 | 59.60 |
| 80 | 83 | 30.40 | 86 | 35.70 | 89 | 41.80 | 92 | 48.40 | 94 | 55.10 | 97 | 61.60 |
| 85 | 85 | 31.50 | 87 | 37.00 | 90 | 43.20 | 93 | 50.00 | 96 | 56.90 | 99 | 63.50 |
| 90 | 86 | 32.70 | 89 | 38.30 | 92 | 44.60 | 95 | 51.50 | 97 | 58.50 | 100 | 65.30 |
| 95 | 87 | 33.90 | 90 | 39.50 | 93 | 46.00 | 96 | 53.00 | 98 | 60.00 | 101 | 67.10 |
| 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 |

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

| psi@ Nozzle | NOZZLE SIZE (Stream Height: 14 ft.) | | | | | | |
|-------------|--|-------------------|---------------------|--------------------|---------------------|-------|-------|
| | 11/32" x7/32-20" | 3/8" x7/32-20" | 13/32" x7/32-20" | 7/16" x7/32-20" | 15/32" x7/32-20" | | |
| 25 | 61 | 23.30 | 62 | 26.50 | 64 | 29.60 | |
| 30 | 64 | 25.60 | 65 | 29.10 | 68 | 32.40 | |
| 35 | 67 | 27.70 | 68 | 31.40 | 72 | 35.10 | |
| 40 | 69 | 29.60 | 71 | 33.60 | 75 | 37.60 | |
| 45 | 71 | 31.50 | 73 | 35.70 | 77 | 39.90 | |
| 50 | 73 | 33.20 | 75 | 37.70 | 79 | 42.10 | |
| 55 | 75 | 34.90 | 77 | 39.70 | 81 | 44.30 | |
| 60 | 77 | 36.50 | 79 | 41.40 | 83 | 46.60 | |
| 65 | 79 | 38.00 | 81 | 43.20 | 84 | 48.60 | |
| 70 | 81 | 40.10 | 83 | 44.90 | 86 | 50.40 | |
| 75 | 82 | 41.00 | 84 | 46.70 | 87 | 52.40 | |
| 80 | 83 | 42.60 | 86 | 48.30 | 89 | 54.30 | |
| 85 | 85 | 43.80 | 87 | 49.80 | 90 | 56.00 | |
| 90 | 86 | 45.70 | 89 | 51.40 | 92 | 57.90 | |
| 95 | 87 | 46.60 | 90 | 53.00 | 93 | 59.60 | |
| 100 | 88 | 47.90 | 91 | 54.50 | 94 | 61.20 | |
| | | | | | | 97 | 67.50 |
| | | | | | | 99 | 74.80 |

*Nozzle must be purchased separately. See chart below.

Part Numbers and Ordering Information

| Sprinkler Only | |
|--------------------------|---------------|
| Sprinkler without Nozzle | A23802 |

| 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 | 5.56mm | 8.7mm | 9.5mm | 10.3mm | 11.1mm | 11.9mm | 12.7mm | 13.5mm | 14.3mm | 15.9mm | 17.5mm | | |
| Brass Straight Bore Nozzle | BN-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 | — | — | — | — | — | — | — | — | — | — |

Bold nozzle size number denotes the most common nozzle choice.

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

METRIC

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | | | | (Stream Height: 4.3m) | | | | | |
|--------------|-----------------|------------|-------------|---------------|------------|-------------|------------------|------------|-------------|-----------------|------------|-------------|------------------|------------|-------------|-----------------------|--|--|--|--|--|
| | 8.7 mm (11/32") | | | 9.5 mm (3/8") | | | 10.3 mm (13/32") | | | 11.1 mm (7/16") | | | 11.9 mm (15/32") | | | | | | | | |
| | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | | | | | | |
| 1.7 | 18.6 | 1.08 | 3.88 | 18.9 | 1.28 | 4.61 | 19.5 | 1.48 | 5.31 | 20.1 | 1.68 | 6.06 | 20.1 | 1.91 | 6.88 | | | | | | |
| 2.0 | 19.3 | 1.16 | 4.19 | 19.6 | 1.38 | 4.97 | 20.5 | 1.59 | 5.73 | 20.8 | 1.82 | 6.53 | 21.6 | 2.06 | 7.41 | | | | | | |
| 2.5 | 20.6 | 1.30 | 4.69 | 21.0 | 1.55 | 5.57 | 22.2 | 1.78 | 6.42 | 22.8 | 2.03 | 7.32 | 23.7 | 2.31 | 8.30 | | | | | | |
| 3.0 | 21.5 | 1.43 | 5.16 | 22.1 | 1.70 | 6.11 | 23.3 | 1.96 | 7.05 | 23.9 | 2.23 | 8.03 | 24.8 | 2.53 | 9.11 | | | | | | |
| 3.5 | 22.3 | 1.55 | 5.58 | 22.9 | 1.84 | 6.61 | 24.2 | 2.12 | 7.62 | 24.8 | 2.41 | 8.69 | 25.7 | 2.74 | 9.86 | | | | | | |
| 4.0 | 23.2 | 1.62 | 5.83 | 23.8 | 1.93 | 6.95 | 25.1 | 2.24 | 8.06 | 25.8 | 2.58 | 9.27 | 26.6 | 2.94 | 10.57 | | | | | | |
| 4.5 | 24.1 | 1.70 | 6.12 | 24.7 | 2.02 | 7.28 | 25.6 | 2.36 | 8.51 | 26.5 | 2.74 | 9.85 | 27.4 | 3.15 | 11.35 | | | | | | |
| 5.0 | 24.8 | 1.81 | 6.51 | 25.4 | 2.14 | 7.70 | 26.4 | 2.50 | 8.99 | 27.3 | 2.90 | 10.43 | 28.0 | 3.30 | 11.89 | | | | | | |
| 5.5 | 25.3 | 1.91 | 6.89 | 26.2 | 2.25 | 8.09 | 27.1 | 2.63 | 9.47 | 28.0 | 3.05 | 10.97 | 28.6 | 3.47 | 12.49 | | | | | | |
| 6.0 | 26.0 | 2.02 | 7.26 | 26.8 | 2.37 | 8.52 | 27.7 | 2.76 | 9.94 | 28.6 | 3.19 | 11.49 | 29.4 | 3.63 | 13.07 | | | | | | |
| 6.5 | 26.5 | 2.13 | 7.66 | 27.4 | 2.48 | 8.93 | 28.3 | 2.89 | 10.40 | 29.2 | 3.33 | 11.98 | 29.8 | 3.77 | 13.57 | | | | | | |
| 6.9 | 26.8 | 2.15 | 7.72 | 27.7 | 2.57 | 9.24 | 28.7 | 2.99 | 10.77 | 29.6 | 3.44 | 12.38 | 30.2 | 3.88 | 13.97 | | | | | | |

NOZZLE SIZE

(Stream Height: 4.3m)

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | | | | (Stream Height: 4.3m) | | | | | |
|--------------|----------------|------------|-------------|------------------|------------|-------------|-----------------|------------|-------------|----------------|------------|-------------|------------------|------------|-------------|-----------------------|--|--|--|--|--|
| | 12.7 mm (1/2") | | | 13.5 mm (17/32") | | | 14.3 mm (9/16") | | | 15.9 mm (5/8") | | | 17.5 mm (11/16") | | | | | | | | |
| | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | | | | | | |
| 1.7 | 20.1 | 2.13 | 7.68 | 20.1 | 2.34 | 8.43 | 20.1 | 2.67 | 9.61 | 20.1 | 3.25 | 11.70 | 20.1 | 3.91 | 14.06 | | | | | | |
| 2.0 | 21.8 | 2.30 | 8.27 | 21.8 | 2.53 | 9.10 | 21.8 | 2.87 | 10.35 | 21.8 | 3.50 | 12.60 | 21.8 | 4.22 | 15.18 | | | | | | |
| 2.5 | 24.4 | 2.57 | 9.26 | 24.4 | 2.83 | 10.19 | 24.6 | 3.22 | 11.60 | 24.6 | 3.92 | 14.12 | 24.6 | 4.74 | 17.06 | | | | | | |
| 3.0 | 25.7 | 2.83 | 10.17 | 26.4 | 3.11 | 11.18 | 27.1 | 3.54 | 12.73 | 27.5 | 4.31 | 15.50 | 27.5 | 5.22 | 18.78 | | | | | | |
| 3.5 | 26.6 | 3.05 | 11.00 | 27.5 | 3.36 | 12.10 | 28.7 | 3.83 | 13.77 | 29.1 | 4.66 | 16.78 | 29.7 | 5.65 | 20.34 | | | | | | |
| 4.0 | 27.5 | 3.27 | 11.79 | 28.4 | 3.63 | 13.06 | 29.4 | 4.07 | 14.66 | 30.5 | 4.98 | 17.93 | 31.2 | 6.06 | 21.82 | | | | | | |
| 4.5 | 28.4 | 3.49 | 12.58 | 29.3 | 3.87 | 13.92 | 30.2 | 4.39 | 15.79 | 31.1 | 5.33 | 19.20 | 32.3 | 6.45 | 23.21 | | | | | | |
| 5.0 | 29.0 | 3.69 | 13.29 | 30.0 | 4.08 | 14.68 | 30.9 | 4.64 | 16.70 | 31.8 | 5.64 | 20.30 | 33.1 | 6.81 | 24.51 | | | | | | |
| 5.5 | 29.5 | 3.88 | 13.96 | 30.7 | 4.29 | 15.44 | 31.7 | 4.88 | 17.57 | 32.6 | 5.93 | 21.33 | 33.5 | 7.16 | 25.77 | | | | | | |
| 6.0 | 30.3 | 4.05 | 14.58 | 31.3 | 4.49 | 16.15 | 32.1 | 5.10 | 18.37 | 33.2 | 6.20 | 22.30 | 34.3 | 7.49 | 26.96 | | | | | | |
| 6.5 | 30.7 | 4.22 | 15.17 | 32.0 | 4.67 | 16.83 | 32.8 | 5.30 | 19.07 | 33.8 | 6.45 | 23.21 | 35.0 | 7.81 | 28.11 | | | | | | |
| 6.9 | 31.1 | 4.35 | 15.65 | 32.3 | 4.82 | 17.35 | 33.2 | 5.50 | 19.81 | 34.1 | 6.64 | 23.89 | 35.4 | 8.06 | 29.00 | | | | | | |

NOZZLE SIZE

(Stream Height: 4.3m)

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | | | | (Stream Height: 4.3m) | | | | | |
|--------------|---------------------------------------|------------|-------------|-------------------------------------|------------|-------------|--|------------|-------------|---------------------------------------|------------|-------------|--|------------|-------------|-----------------------|--|--|--|--|--|
| | 8.7 mm x 5.56 mm (11/32" x 7/32") 20° | | | 9.5 mm x 5.56 mm (3/8" x 7/32") 20° | | | 10.3 mm x 5.56 mm (13/32" x 7/32") 20° | | | 11.1 mm x 5.56 mm (7/16" x 7/32") 20° | | | 11.9 mm x 5.56 mm (15/32" x 7/32") 20° | | | | | | | | |
| | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | | | | | | |
| 1.7 | 18.6 | 1.47 | 5.29 | 18.9 | 1.67 | 6.02 | 19.5 | 1.87 | 6.72 | 20.1 | 2.08 | 7.47 | 20.1 | 2.30 | 8.27 | | | | | | |
| 2.0 | 19.3 | 1.59 | 5.71 | 19.6 | 1.80 | 6.49 | 20.5 | 2.01 | 7.23 | 20.8 | 2.24 | 8.05 | 21.6 | 2.48 | 8.92 | | | | | | |
| 2.5 | 20.6 | 1.78 | 6.40 | 21.0 | 2.02 | 7.25 | 22.2 | 2.25 | 8.11 | 22.8 | 2.50 | 9.01 | 23.7 | 2.78 | 10.00 | | | | | | |
| 3.0 | 21.5 | 1.95 | 7.02 | 22.1 | 2.21 | 7.96 | 23.3 | 2.47 | 8.90 | 23.9 | 2.75 | 9.90 | 24.8 | 3.05 | 10.97 | | | | | | |
| 3.5 | 22.3 | 2.11 | 7.60 | 22.9 | 2.40 | 8.63 | 24.2 | 2.68 | 9.63 | 24.8 | 2.97 | 10.71 | 25.7 | 3.30 | 11.88 | | | | | | |
| 4.0 | 23.2 | 2.26 | 8.14 | 23.8 | 2.57 | 9.25 | 25.1 | 2.88 | 10.37 | 25.8 | 3.19 | 11.48 | 26.6 | 3.54 | 12.76 | | | | | | |
| 4.5 | 24.1 | 2.40 | 8.65 | 24.7 | 2.73 | 9.83 | 25.6 | 3.07 | 11.06 | 26.5 | 3.40 | 12.24 | 27.4 | 3.78 | 13.60 | | | | | | |
| 5.0 | 24.8 | 2.56 | 9.21 | 25.4 | 2.89 | 10.40 | 25.5 | 3.24 | 11.67 | 27.3 | 3.59 | 12.92 | 28.0 | 3.99 | 14.35 | | | | | | |
| 5.5 | 25.3 | 2.68 | 9.65 | 26.2 | 3.04 | 10.95 | 27.0 | 3.42 | 12.31 | 28.0 | 3.78 | 13.60 | 28.6 | 4.20 | 15.12 | | | | | | |
| 6.0 | 26.0 | 2.81 | 10.12 | 26.8 | 3.18 | 11.45 | 27.7 | 3.58 | 12.89 | 28.6 | 3.96 | 14.25 | 29.4 | 4.39 | 15.79 | | | | | | |
| 6.5 | 26.5 | 2.93 | 10.55 | 27.4 | 3.33 | 11.98 | 28.3 | 3.74 | 13.48 | 29.2 | 4.13 | 14.88 | 29.8 | 4.57 | 16.46 | | | | | | |
| 6.9 | 26.8 | 3.02 | 10.88 | 27.7 | 3.44 | 12.38 | 28.7 | 3.86 | 13.90 | 29.6 | 4.26 | 15.33 | 30.2 | 4.72 | 16.99 | | | | | | |

* Nozzles must be purchased separately. See chart on previous page.

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

1/2" 13mm Full or Part Circle, Brass Impact Sprinklers

- Durable brass die-cast, 'precision jet' (PJ) arm
- Stainless steel springs and fulcrum pin
- PJ arm reduces side splash

Features

- Chemically resistant washers
- All models include integral (to sprinkler body) break-up pin for adjustable distribution (ADJ)
- DA option also includes integral (to sprinkler body) distance control flap
- Full or Part Circle operation

Benefits

- Many options provide design and application flexibility
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Brass
- 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: 38-41 ft. (11.6-12.5 meters)
- Nozzle Port: 1/8" Female NPT

Straight Bore Nozzle (SBN-1) Performance*

| psi@ Nozzle | NOZZLE SIZE (Stream Height: 7 ft.) | | | |
|-------------|------------------------------------|------------|-------|------------|
| | 9/64" | Flow (gpm) | 5/32" | 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 |

Straight Bore Nozzle (SBN-1) Performance* METRIC

| bar@ Nozzle | NOZZLE SIZE (Stream Height: 2.1m) | | | | METRIC | |
|-------------|-----------------------------------|------------|-----------------|-------------|--------|------|
| | 3.57 mm (9/64") | Flow (l/s) | 3.97 mm (5/32") | Flow (m³/h) | | |
| 2.1 | 11.6 | 0.20 | 0.70 | 11.9 | 0.24 | 0.86 |
| 2.5 | 11.8 | 0.22 | 0.77 | 12.0 | 0.26 | 0.95 |
| 3.0 | 12.0 | 0.24 | 0.85 | 12.2 | 0.29 | 1.05 |
| 3.5 | 12.2 | 0.25 | 0.91 | 12.5 | 0.32 | 1.14 |



Part Numbers and Ordering Information

| Assembled Sprinkler/Nozzle Factory Combination | |
|--|------------------|
| 25BPJ-FP-ADJ w/SBN-1 9/64" 3.57mm | A32901-09 |
| 25BPJ-FP-ADJ w/SBN-1 5/32" 3.97mm | A32901-10 |
| 25BPJ-FP-ADJ-DA-TNT w/SBN-1 9/64" 3.57mm | A34403-09 |
| 25BPJ-FP-ADJ-DA-TNT w/SBN-1 5/32" 3.57mm | 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 number denotes the most common nozzle choice.

2045-PJ

1/2" (13mm) Full or Part Circle, Plastic Impact Sprinkler

- Durable Delrin™ plastic, body arm, bearing sleeve, nipple and break up pin
- Stainless steel springs and fulcrum pin
- Chemically resistant washers

Features

- Plastic Quick Fit Nozzles
- Low Angle (10°) Nozzles available
- Integral straightening vane for greater distance
- Full or Part Circle operation

Benefits

- Superior chemical and grit resistance
- Smooth rotation at lower pressures
- Design flexibility
- Built to last
- Two-year Customer Satisfaction Policy

Specifications

- Bearing: 1/2" (13mm) Male NPT, Plastic
- Trajectory Angle: Standard 23° Low Angle 10° available.
- Operating Range: 25-60 psi (1.7-4.1 bar)
- Flow Rate: 1.5-8.4 gpm (0.34-1.91 m³/h)
- Radius: 22-45 ft. (6.7-13.7 meters)
- Nozzle: QuickFit Nozzle Port

| Straight Bore Nozzle (SBN-1) Performance* | | | | | | | | | | |
|---|---------------|---------------|---------------|---------------|---------------|------------------------|------|------|------|------|
| psi@ Nozzle | NOZZLE SIZE | | | | | (Stream Height: 6 ft.) | | | | |
| | 3/32" | 7/64" | 1/8" | 5/32" | 3/16" | | | | | |
| Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | | | | |
| 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 |

| Low Angle Nozzle (LAN-1) | | | | | | |
|--------------------------|---------------|---------------|---------------|---------------|-----------------|------------------------|
| psi@ Nozzle | NOZZLE SIZE | | | | | (Stream Height: 3 ft.) |
| | 7/64" | Black | 5/32" | Yellow | Rad. Flow (ft.) | Rad. Flow (gpm) |
| Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) | Rad. (ft.) |
| 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 | | |

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

| Straight Bore Nozzle (SBN-1) Performance* | | | | | | | METRIC | | |
|---|------------------------|--------------------------|------------------------|---------------------------|--------------------------|-----------------------|---------------|----------------|------|
| bar @ Nozzle | NOZZLE SIZE | | | | | (Stream Height: 1.8m) | | | |
| | 2.38 mm (3/32") Red | 2.78 mm (7/64") Black | 3.18 mm (1/8") Blue | 3.97 mm (5/32") Yellow | 4.76 mm (3/16") Beige | Rad. Flow (m) | Flow (l/s) | Flow (m³/h) | |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | |
| 1.7 | - | - | 9.8 | 0.14 | 0.5 | 10.7 | 0.18 | 0.64 | |
| 2.0 | - | - | 10.4 | 0.15 | 0.55 | 11.0 | 0.19 | 0.68 | |
| 2.5 | 11.3 | 0.13 | 0.46 | 11.4 | 0.17 | 0.62 | 11.7 | 0.21 | 0.76 |
| 3.0 | 11.5 | 0.14 | 0.51 | 11.8 | 0.19 | 0.67 | 12.1 | 0.23 | 0.83 |
| 3.5 | 11.6 | 0.15 | 0.55 | 12.2 | 0.20 | 0.72 | 12.4 | 0.25 | 0.89 |
| 4.0 | 11.6 | 0.16 | 0.58 | 12.5 | 0.22 | 0.78 | 12.7 | 0.26 | 0.94 |
| 4.1 | 11.6 | 0.16 | 0.59 | 12.5 | 0.22 | 0.79 | 12.8 | 0.26 | 0.95 |

| Low Angle Nozzle (LAN-1-10) METRIC | | | | | | | | |
|------------------------------------|--------------------------|---------------------------|---------------|-----------------------|----------------|---------------|---------------|----------------|
| bar @ Nozzle | NOZZLE SIZE | | | (Stream Height: 0.9m) | | | | |
| | 2.78 mm (7/64") Black | 3.97 mm (5/32") Yellow | Rad. Flow (m) | Flow (l/s) | Flow (m³/h) | Rad. Flow (m) | Flow (l/s) | Flow (m³/h) |
| Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) |
| 1.7 | 6.7 | 0.09 | 0.34 | 706 | 0.21 | 0.77 | | |
| 2.0 | 6.8 | 0.10 | 0.38 | 8.1 | 0.23 | 0.83 | | |
| 2.5 | 7.1 | 0.12 | 0.44 | 8.9 | 0.26 | 0.92 | | |
| 3.0 | 7.5 | 0.13 | 0.47 | 9.4 | 0.28 | 1.01 | | |
| 3.5 | 7.6 | 0.14 | 0.50 | 9.6 | 0.30 | 1.09 | | |
| 4.0 | 7.6 | 0.15 | 0.54 | 9.8 | 0.33 | 1.19 | | |
| 4.1 | 7.6 | 0.15 | 0.54 | 9.8 | 0.34 | 1.23 | | |



Part Numbers and Ordering Information

| 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.

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

Bold nozzle size number denotes the most common nozzle choice.

35A-TNT 35A-ADJ-TNT 35A-PJ-ADJ-TNT 35A-PJ-DA-TNT

3/4" 19 mm Full or Part Circle, Brass Impact Sprinklers

- "Precision jet" (PJ) arm (35A-PJ)
- Standard spoon style arm also available (35A-TNT)
- Stainless steel springs and fulcrum pin

Features

- Chemically resistant washers
- ADJ-3 Nozzles have break-up pins
- DAN-3 Nozzles have a distance control flap

Benefits

- PJ arm reduces side splash
- Many options provide design and application flexibility
- Corrosion and grit resistant
- Available less Nozzle with standard spoon only
- Standard spoon model also available with 3/16" (#12) Nozzle
- PJ model available with 3/16" (#12) ADJ pr 3/16" (#12) DA Nozzles only
- Full or Part Circle operation
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 3/4" (19mm) Male NPT, Brass
- 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: 42-51 ft. (12.8-15.5 meters)
- Nozzle Port: 1/4" Female NPT



Brass Straight Bore Nozzle (ADJN-3) or (DAN-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 |
| 35 | 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 |

Brass Straight Bore Nozzle (ADJN-3) or (DAN-3) METRIC

| bar @ Nozzle | NOZZLE SIZE (Stream Height: 2.7m) | | | | | | | | |
|--------------|-----------------------------------|-----------------------------|---------------------|---------------|-----------------------------|-------------|---------------|-----------------------------|------|
| | 3.97 mm (5/32") | | 4.37 mm (11/64") | | 4.76 mm (3/16") | | | | |
| Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | Rad. (m) | Flow (l/s) | Flow (m ³ /h) | |
| 2.1 | 12.8 | 0.25 | 0.89 | 13.1 | 0.29 | 1.04 | 13.4 | 0.35 | 1.25 |
| 2.5 | 13.2 | 0.27 | 0.97 | 13.5 | 0.32 | 1.16 | 14.1 | 0.38 | 1.39 |
| 3.0 | 13.4 | 0.29 | 1.05 | 13.9 | 0.35 | 1.27 | 14.5 | 0.42 | 1.52 |
| 3.5 | 13.7 | 0.32 | 1.14 | 14.4 | 0.38 | 1.37 | 15.0 | 0.46 | 1.65 |
| 4.0 | 13.9 | 0.34 | 1.21 | 14.6 | 0.41 | 1.47 | 15.4 | 0.48 | 1.74 |
| 4.1 | 14.0 | 0.34 | 1.23 | 14.6 | 0.42 | 1.50 | 15.5 | 0.49 | 1.77 |

Part Numbers and Ordering Information

| Sprinkler | A39200 | 35A-ADJ-TNT | A38820-12 |
|--|------------------|---|------------------|
| 35A-TNT Sprinkler without Nozzle | A38810-12 | 35A-PJ-ADJ-TNT Sprinkler with ADJN-3 | A40613-12 |
| 35A-PJ-TNT Sprinkler without Nozzle | A39400 | 35A-PJ-DA-TNT Sprinkler with DAN-3 | A40614-12 |

| Nozzle Only | | | XX = Nozzle Size | | |
|---------------------------------------|--------|------------------|------------------|---------|-----------|
| | | | U.S. Standard | 5/32" | 11/64" |
| | | | Metric | 3.97 mm | 4.37 mm |
| Brass Straight Bore Adjustable Nozzle | ADJN-3 | 100328-XX | 10 | 11 | 12 |
| Brass Adjustable Do-All Nozzle | DAN-3 | 100332-XX | 10 | — | 12 |
| Brass Keyhole Nozzle | KHN-3 | 106353-XX | 10 | 11 | |

Bold nozzle size number denotes the most common nozzle choice.

65PJ

1" 25 mm Full or Part Circle, Brass Impact Sprinkler

- Heavy duty brass construction
- 1" Female NPT Bearing
- "Precision jet" (PJ) arm

Features

- Stainless steel springs and fulcrum pin
- Chemically resistant washers
- ADJN-4 Nozzles include integral to Nozzle break-up pin
- Full or Part Circle operation

Benefits

- PJ arm reduces side splash
- Many options provide design and application flexibility
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1" (25mm) Female NPT, Brass
- 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: 57-65 ft. (17.4-19.8 meters)
- Nozzle Port: 3/8" Female NPT



Part Numbers and Ordering Information

| Sprinkler Only | |
|--------------------------|---------------|
| Sprinkler without Nozzle | A42001 |

| Assembled Sprinkler/Nozzle Factory Combination | |
|--|-----------------|
| Sprinkler with Nozzle 65PJ-ADJ-TNT | A4200316 |

| 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 | |

| Adjustable Straight Bore Nozzle (ADJN-4) Performance | | | |
|--|--|----------|------------|
| bar @ Nozzle | NOZZLE SIZE (Stream Height: 2.9 - 4.3 m) | | |
| | 6.35 mm (1/4") | Rad. (m) | Flow (l/s) |
| 3.5 | 17.4 | 0.82 | 2.93 |
| 4.0 | 17.9 | 0.88 | 3.16 |
| 4.5 | 18.5 | 0.93 | 3.37 |
| 5.0 | 19.2 | 0.99 | 3.55 |
| 5.5 | 19.8 | 1.04 | 3.75 |

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

Drip Irrigation

Micro Irrigation

Low Flow Irrigation

Impact Sprinklers

Monitoring & Controls

Filtration

Bold nozzle size number denotes the most common nozzle choice.

Impact Sprinklers

1 1/4" (32mm) Full or Part Circle

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION

85EHD Tough Bird®

1 1/4" 32 mm Full or Part Circle,
Brass Impact Sprinklers

- Heavy duty brass construction
- Stainless steel wear buttons, springs and fulcrum pin
- Locking stainless steel trip collars

Features

- Chemically resistant washers
- Full or Part Circle operation

Benefits

- Internal straightening vane increases distance of throw
- Stainless steel buttons protect trip mechanism from wear
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1 1/4" (32mm) Male NPT, Brass
- 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: 61-116 ft. (18.6-35.4 meters)
- Nozzle Port: 3/4" Female NPT
- Spreader Nozzle Port: 1/8" Female NPT

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. Flow (ft.) (gpm) | Rad. Flow (ft.) (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 |

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. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (gpm) | Rad. Flow (ft.) (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.

See Chart below.

Part Numbers and Ordering Information

| Sprinkler Only | Nozzle Only | XX = Nozzle Size | | | | | | | | | | | |
|---------------------------------------|-------------|------------------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Sprinkler without Nozzle without Plug | A23600 | 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 | 5.56mm | 8.7mm | 9.5mm | 10.3mm | 11.1mm | 11.9mm | 12.7mm | 13.5mm | 14.3mm | 15.9mm | 17.5mm |
| 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.

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

METRIC

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | | | | (Stream Height: 4.3m) | | | | | |
|--------------|--------------------|---------------|----------------|------------------|---------------|----------------|---------------------|---------------|----------------|--------------------|---------------|----------------|---------------------|---------------|----------------|-----------------------|--|--|--|--|--|
| | 8.7 mm (11/32") | | | 9.5 mm (3/8") | | | 10.3 mm (13/32") | | | 11.1 mm (7/16") | | | 11.9 mm (15/32") | | | | | | | | |
| | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | | | | | | |
| 1.7 | 18.6 | 1.08 | 3.88 | 18.9 | 1.28 | 4.61 | 19.5 | 1.48 | 5.31 | 20.1 | 1.68 | 6.06 | 20.1 | 1.91 | 6.88 | | | | | | |
| 2.0 | 19.3 | 1.16 | 4.19 | 19.6 | 1.38 | 4.97 | 20.5 | 1.59 | 5.73 | 20.8 | 1.82 | 6.53 | 21.6 | 2.06 | 7.41 | | | | | | |
| 2.5 | 20.6 | 1.30 | 4.69 | 21.0 | 1.55 | 5.57 | 22.2 | 1.78 | 6.42 | 22.8 | 2.03 | 7.32 | 23.7 | 2.31 | 8.30 | | | | | | |
| 3.0 | 21.5 | 1.43 | 5.16 | 22.1 | 1.70 | 6.11 | 23.3 | 1.96 | 7.05 | 23.9 | 2.23 | 8.03 | 24.8 | 2.53 | 9.11 | | | | | | |
| 3.5 | 22.3 | 1.55 | 5.58 | 22.9 | 1.84 | 6.61 | 24.2 | 2.12 | 7.62 | 24.8 | 2.41 | 8.69 | 25.7 | 2.74 | 9.86 | | | | | | |
| 4.0 | 23.2 | 1.62 | 5.83 | 23.8 | 1.93 | 6.95 | 25.1 | 2.24 | 8.06 | 25.8 | 2.58 | 9.27 | 26.6 | 2.94 | 10.57 | | | | | | |
| 4.5 | 24.1 | 1.70 | 6.12 | 24.7 | 2.02 | 7.28 | 25.6 | 2.36 | 8.51 | 26.5 | 2.74 | 9.85 | 27.4 | 3.15 | 11.35 | | | | | | |
| 5.0 | 24.8 | 1.81 | 6.51 | 25.4 | 2.14 | 7.70 | 26.4 | 2.50 | 8.99 | 27.3 | 2.90 | 10.43 | 28.0 | 3.30 | 11.89 | | | | | | |
| 5.5 | 25.3 | 1.91 | 6.89 | 26.2 | 2.25 | 8.09 | 27.1 | 2.63 | 9.47 | 28.0 | 3.05 | 10.97 | 28.6 | 3.47 | 12.49 | | | | | | |
| 6.0 | 26.0 | 2.02 | 7.26 | 26.8 | 2.37 | 8.52 | 27.7 | 2.76 | 9.94 | 28.6 | 3.19 | 11.49 | 29.4 | 3.63 | 13.07 | | | | | | |
| 6.5 | 26.5 | 2.13 | 7.66 | 27.4 | 2.48 | 8.93 | 28.3 | 2.89 | 10.40 | 29.2 | 3.33 | 11.98 | 29.8 | 3.77 | 13.57 | | | | | | |
| 6.9 | 26.8 | 2.15 | 7.72 | 27.7 | 2.57 | 9.24 | 28.7 | 2.99 | 10.77 | 29.6 | 3.44 | 12.38 | 30.2 | 3.88 | 13.97 | | | | | | |

NOZZLE SIZE

(Stream Height: 4.3m)

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | | | | (Stream Height: 4.3m) | | | | | |
|--------------|---------------------|---------------|----------------|---------------------|---------------|----------------|--------------------|---------------|----------------|-------------------|---------------|----------------|---------------------|---------------|----------------|-----------------------|--|--|--|--|--|
| | 12.7 mm (1 1/2") | | | 13.5 mm (17/32") | | | 14.3 mm (9/16") | | | 15.9 mm (5/8") | | | 17.5 mm (11/16") | | | | | | | | |
| | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | | | | | | |
| 1.7 | 20.1 | 2.13 | 7.68 | 20.1 | 2.34 | 8.43 | 20.1 | 2.67 | 9.61 | 20.1 | 3.25 | 11.70 | 20.1 | 3.91 | 14.06 | | | | | | |
| 2.0 | 21.8 | 2.30 | 8.27 | 21.8 | 2.53 | 9.10 | 21.8 | 2.87 | 10.35 | 21.8 | 3.50 | 12.60 | 21.8 | 4.22 | 15.18 | | | | | | |
| 2.5 | 24.4 | 2.57 | 9.26 | 24.4 | 2.83 | 10.19 | 24.6 | 3.22 | 11.60 | 24.6 | 3.92 | 14.12 | 24.6 | 4.74 | 17.06 | | | | | | |
| 3.0 | 25.7 | 2.83 | 10.17 | 26.4 | 3.11 | 11.18 | 27.1 | 3.54 | 12.73 | 27.5 | 4.31 | 15.50 | 27.5 | 5.22 | 18.78 | | | | | | |
| 3.5 | 26.6 | 3.05 | 11.00 | 27.5 | 3.36 | 12.10 | 28.7 | 3.83 | 13.77 | 29.1 | 4.66 | 16.78 | 29.7 | 5.65 | 20.34 | | | | | | |
| 4.0 | 27.5 | 3.27 | 11.79 | 28.4 | 3.63 | 13.06 | 29.4 | 4.07 | 14.66 | 30.5 | 4.98 | 17.93 | 31.2 | 6.06 | 21.82 | | | | | | |
| 4.5 | 28.4 | 3.49 | 12.58 | 29.3 | 3.87 | 13.92 | 30.2 | 4.39 | 15.79 | 31.1 | 5.33 | 19.20 | 32.3 | 6.45 | 23.21 | | | | | | |
| 5.0 | 29.0 | 3.69 | 13.29 | 30.0 | 4.08 | 14.68 | 30.9 | 4.64 | 16.70 | 31.8 | 5.64 | 20.30 | 33.1 | 6.81 | 24.51 | | | | | | |
| 5.5 | 29.5 | 3.88 | 13.96 | 30.7 | 4.29 | 15.44 | 31.7 | 4.88 | 17.57 | 32.6 | 5.93 | 21.33 | 33.5 | 7.16 | 25.77 | | | | | | |
| 6.0 | 30.3 | 4.05 | 14.58 | 31.3 | 4.49 | 16.15 | 32.1 | 5.10 | 18.37 | 33.2 | 6.20 | 22.30 | 34.3 | 7.49 | 26.96 | | | | | | |
| 6.5 | 30.7 | 4.22 | 15.17 | 32.0 | 4.67 | 16.83 | 32.8 | 5.30 | 19.07 | 33.8 | 6.45 | 23.21 | 35.0 | 7.81 | 28.11 | | | | | | |
| 6.9 | 31.1 | 4.35 | 15.65 | 32.3 | 4.82 | 17.35 | 33.2 | 5.50 | 19.81 | 34.1 | 6.64 | 23.89 | 35.4 | 8.06 | 29.00 | | | | | | |

NOZZLE SIZE

(Stream Height: 4.3m)

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | | | | (Stream Height: 4.3m) | | | | | |
|--------------|--|---------------|----------------|--|---------------|----------------|---|---------------|----------------|--|---------------|----------------|---|---------------|----------------|-----------------------|--|--|--|--|--|
| | 8.7 mm x 5.56 mm (11/32" x 7/32") 20° | | | 9.5 mm x 5.56 mm (3/8" x 7/32") 20° | | | 10.3 mm x 5.56 mm (13/32" x 7/32") 20° | | | 11.1 mm x 5.56 mm (7/16" x 7/32") 20° | | | 11.9 mm x 5.56 mm (15/32" x 7/32") 20° | | | | | | | | |
| | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | Rad. | Flow (l/s) | Flow (m³/h) | | | | | | |
| 1.7 | 18.6 | 1.47 | 5.29 | 18.9 | 1.67 | 6.02 | 19.5 | 1.87 | 6.72 | 20.1 | 2.08 | 7.47 | 20.1 | 2.30 | 8.27 | | | | | | |
| 2.0 | 19.3 | 1.59 | 5.71 | 19.6 | 1.80 | 6.49 | 20.5 | 2.01 | 7.23 | 20.8 | 2.24 | 8.05 | 21.6 | 2.48 | 8.92 | | | | | | |
| 2.5 | 20.6 | 1.78 | 6.40 | 21.0 | 2.02 | 7.25 | 22.2 | 2.25 | 8.11 | 22.8 | 2.50 | 9.01 | 23.7 | 2.78 | 10.00 | | | | | | |
| 3.0 | 21.5 | 1.95 | 7.02 | 22.1 | 2.21 | 7.96 | 23.3 | 2.47 | 8.90 | 23.9 | 2.75 | 9.90 | 24.8 | 3.05 | 10.97 | | | | | | |
| 3.5 | 22.3 | 2.11 | 7.60 | 22.9 | 2.40 | 8.63 | 24.2 | 2.68 | 9.63 | 24.8 | 2.97 | 10.71 | 25.7 | 3.30 | 11.88 | | | | | | |
| 4.0 | 23.2 | 2.26 | 8.14 | 23.8 | 2.57 | 9.25 | 25.1 | 2.88 | 10.37 | 25.8 | 3.19 | 11.48 | 26.6 | 3.54 | 12.76 | | | | | | |
| 4.5 | 24.1 | 2.40 | 8.65 | 24.7 | 2.73 | 9.83 | 25.6 | 3.07 | 11.06 | 26.5 | 3.40 | 12.24 | 27.4 | 3.78 | 13.60 | | | | | | |
| 5.0 | 24.8 | 2.56 | 9.21 | 25.4 | 2.89 | 10.40 | 25.5 | 3.24 | 11.67 | 27.3 | 3.59 | 12.92 | 28.0 | 3.99 | 14.35 | | | | | | |
| 5.5 | 25.3 | 2.68 | 9.65 | 26.2 | 3.04 | 10.95 | 27.0 | 3.42 | 12.31 | 28.0 | 3.78 | 13.60 | 28.6 | 4.20 | 15.12 | | | | | | |
| 6.0 | 26.0 | 2.81 | 10.12 | 26.8 | 3.18 | 11.45 | 27.7 | 3.58 | 12.89 | 28.6 | 3.96 | 14.25 | 29.4 | 4.39 | 15.79 | | | | | | |
| 6.5 | 26.5 | 2.93 | 10.55 | 27.4 | 3.33 | 11.98 | 28.3 | 3.74 | 13.48 | 29.2 | 4.13 | 14.88 | 29.8 | 4.57 | 16.46 | | | | | | |
| 6.9 | 26.8 | 3.02 | 10.88 | 27.7 | 3.44 | 12.38 | 28.7 | 3.86 | 13.90 | 29.6 | 4.26 | 15.33 | 30.2 | 4.72 | 16.99 | | | | | | |

NOZZLE SIZE

(Stream Height: 4.3m)

Impact Sprinklers

1 1/4" (32mm) Full or Part Circle

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION

85EHD-LA Tough Bird®

1 1/4" 32 mm Full or Part Circle,
Brass Impact Sprinklers

- Heavy duty brass construction
- Stainless steel wear buttons, springs and fulcrum pin
- Locking stainless steel trip collars

Features

- Chemically resistant washers
- Full or Part Circle operation

Benefits

- Internal straightening vane increases distance of throw
- Stainless steel buttons protect trip mechanism from wear
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

Specifications

- Bearing: 1 1/4" (32mm) Male NPT, Brass
- Trajectory Angle: 17°
- Operating Range: 25-100 psi (1.7-6.9 bar)
- Flow Rate: 17.1-127.7 gpm (3.88-29.0 m³/h)
- Radius: 52-108 ft. (15.8-32.9 meters)
- Nozzle Port: 3/4" Female NPT



Part Numbers and Ordering Information

| Sprinkler Only | |
|--------------------------|---------------|
| Sprinkler without Nozzle | A23960 |

| Nozzle Only | | | XX = Nozzle Size | | | | | | | | | | | |
|----------------------------|--------------|------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|
| | | | U.S. Standard | | 11/32" | 3/8" | 13/32" | 7/16" | 15/32" | 1/2" | 17/32" | 9/16" | 5/8" | 11/16" |
| | | | Metric | 8.7mm | 9.5mm | 10.3mm | 11.1mm | 11.9mm | 12.7mm | 13.5mm | 14.3mm | 15.9mm | 17.5mm | |
| Brass Straight Bore Nozzle | SBN-5 | 103043-XX | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 44 | | |
| Brass Low Pressure Nozzle | LPN-5 | 108149-XX | — | 24 | — | 28 | 30 | 32 | — | — | 40 | — | | |

Bold nozzle size number denotes the most common nozzle choice.

Straight Bore Nozzle (SBN-5) Performance*

METRIC

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | | | | (Stream Height: 3m) | | | | | |
|-----------------|--------------------|---------------|----------------|------------------|---------------|----------------|---------------------|---------------|----------------|--------------------|---------------|----------------|---------------------|---------------|----------------|---------------------|--|--|--|--|--|
| | 8.7 mm (11/32") | | | 9.5 mm (3/8") | | | 10.3 mm (13/32") | | | 11.1 mm (7/16") | | | 11.9 mm (15/32") | | | | | | | | |
| | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | | | | | | |
| 1.7 | 15.8 | 1.08 | 3.88 | 16.8 | 1.28 | 4.61 | 17.4 | 1.48 | 5.31 | 18.3 | 1.68 | 6.06 | 18.3 | 1.91 | 6.88 | | | | | | |
| 2.0 | 17.1 | 1.16 | 4.19 | 17.7 | 1.38 | 4.97 | 18.6 | 1.59 | 5.73 | 19.0 | 1.82 | 6.53 | 19.5 | 2.06 | 7.41 | | | | | | |
| 2.5 | 18.4 | 1.30 | 4.69 | 19.1 | 1.55 | 5.57 | 20.0 | 1.78 | 6.42 | 20.6 | 2.03 | 7.32 | 21.5 | 2.31 | 8.30 | | | | | | |
| 3.0 | 19.5 | 1.43 | 5.16 | 20.2 | 1.70 | 6.11 | 21.1 | 1.96 | 7.05 | 21.8 | 2.23 | 8.03 | 22.6 | 2.53 | 9.11 | | | | | | |
| 3.5 | 20.5 | 1.55 | 5.58 | 21.1 | 1.84 | 6.61 | 22.0 | 2.12 | 7.62 | 22.6 | 2.41 | 8.69 | 23.6 | 2.74 | 9.86 | | | | | | |
| 4.0 | 21.4 | 1.62 | 5.83 | 22.0 | 1.93 | 6.95 | 22.9 | 2.24 | 8.06 | 23.5 | 2.58 | 9.27 | 24.4 | 2.94 | 10.57 | | | | | | |
| 4.5 | 22.0 | 1.70 | 6.12 | 22.9 | 2.02 | 7.28 | 23.5 | 2.36 | 8.51 | 24.4 | 2.74 | 9.85 | 25.3 | 3.15 | 11.35 | | | | | | |
| 5.0 | 22.9 | 1.81 | 6.51 | 23.6 | 2.14 | 7.70 | 24.4 | 2.50 | 8.99 | 25.1 | 2.90 | 10.43 | 25.9 | 3.30 | 11.89 | | | | | | |
| 5.5 | 23.5 | 1.91 | 6.89 | 24.3 | 2.25 | 8.09 | 25.0 | 2.63 | 9.47 | 25.9 | 3.05 | 10.97 | 26.8 | 3.47 | 12.49 | | | | | | |
| 6.0 | 24.2 | 2.02 | 7.26 | 24.9 | 2.37 | 8.52 | 25.7 | 2.76 | 9.94 | 26.5 | 3.19 | 11.49 | 27.4 | 3.63 | 13.07 | | | | | | |
| 6.5 | 24.9 | 2.13 | 7.66 | 25.6 | 2.48 | 8.93 | 26.4 | 2.89 | 10.40 | 27.1 | 3.33 | 11.98 | 28.0 | 3.77 | 13.57 | | | | | | |
| 6.9 | 25.3 | 2.15 | 7.72 | 25.9 | 2.57 | 9.24 | 26.8 | 2.99 | 10.77 | 27.7 | 3.44 | 12.38 | 28.3 | 3.88 | 13.97 | | | | | | |

| bar @ Nozzle | NOZZLE SIZE | | | | | | | | | | | | | | | (Stream Height: 3m) | | | | | |
|-----------------|-------------------|---------------|----------------|---------------------|---------------|----------------|--------------------|---------------|----------------|-------------------|---------------|----------------|---------------------|---------------|----------------|---------------------|--|--|--|--|--|
| | 12.7 mm (1/2") | | | 13.5 mm (17/32") | | | 14.3 mm (9/16") | | | 15.9 mm (5/8") | | | 17.5 mm (11/16") | | | | | | | | |
| | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | Rad. (m) | Flow (l/s) | Flow (m³/h) | | | | | | |
| 1.7 | 18.3 | 2.13 | 7.68 | 18.3 | 2.34 | 8.43 | 18.3 | 2.67 | 9.61 | 18.3 | 3.25 | 11.70 | 18.3 | 3.91 | 14.06 | | | | | | |
| 2.0 | 20.0 | 2.30 | 8.27 | 20.0 | 2.53 | 9.10 | 20.0 | 2.87 | 10.35 | 20.0 | 3.50 | 12.60 | 20.0 | 4.22 | 15.18 | | | | | | |
| 2.5 | 21.9 | 2.57 | 9.26 | 22.5 | 2.83 | 10.19 | 22.7 | 3.22 | 11.60 | 22.7 | 3.92 | 14.12 | 22.7 | 4.74 | 17.06 | | | | | | |
| 3.0 | 23.3 | 2.83 | 10.17 | 24.0 | 3.11 | 11.18 | 24.3 | 3.54 | 12.73 | 25.1 | 4.31 | 15.50 | 25.1 | 5.22 | 18.78 | | | | | | |
| 3.5 | 24.2 | 3.05 | 11.00 | 25.1 | 3.36 | 12.10 | 25.7 | 3.83 | 13.77 | 26.7 | 4.66 | 16.78 | 27.0 | 5.65 | 20.34 | | | | | | |
| 4.0 | 25.2 | 3.27 | 11.79 | 26.0 | 3.63 | 13.06 | 26.6 | 4.07 | 14.66 | 28.1 | 4.98 | 17.93 | 28.8 | 6.06 | 21.82 | | | | | | |
| 4.5 | 25.9 | 3.49 | 12.58 | 26.8 | 3.87 | 13.92 | 27.5 | 4.39 | 15.79 | 28.7 | 5.33 | 19.20 | 29.9 | 6.45 | 23.21 | | | | | | |
| 5.0 | 26.8 | 3.69 | 13.29 | 27.4 | 4.08 | 14.68 | 28.2 | 4.64 | 16.70 | 29.6 | 5.64 | 20.30 | 30.8 | 6.81 | 24.51 | | | | | | |
| 5.5 | 27.4 | 3.88 | 13.96 | 28.3 | 4.29 | 15.44 | 28.9 | 4.88 | 17.57 | 30.2 | 5.93 | 21.33 | 31.4 | 7.16 | 25.77 | | | | | | |
| 6.0 | 28.2 | 4.05 | 14.58 | 28.9 | 4.49 | 16.15 | 29.7 | 5.10 | 18.37 | 30.9 | 6.20 | 22.30 | 32.1 | 7.49 | 26.96 | | | | | | |
| 6.5 | 28.9 | 4.22 | 15.17 | 29.5 | 4.67 | 16.83 | 30.1 | 5.30 | 19.07 | 31.3 | 6.45 | 23.21 | 32.6 | 7.81 | 28.11 | | | | | | |
| 6.9 | 29.3 | 4.35 | 15.65 | 29.9 | 4.82 | 17.35 | 30.8 | 5.50 | 19.81 | 32.0 | 6.64 | 23.89 | 32.9 | 8.06 | 29.00 | | | | | | |

* Nozzles must be purchased separately. See chart on previous page.

Monitoring & Controls

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

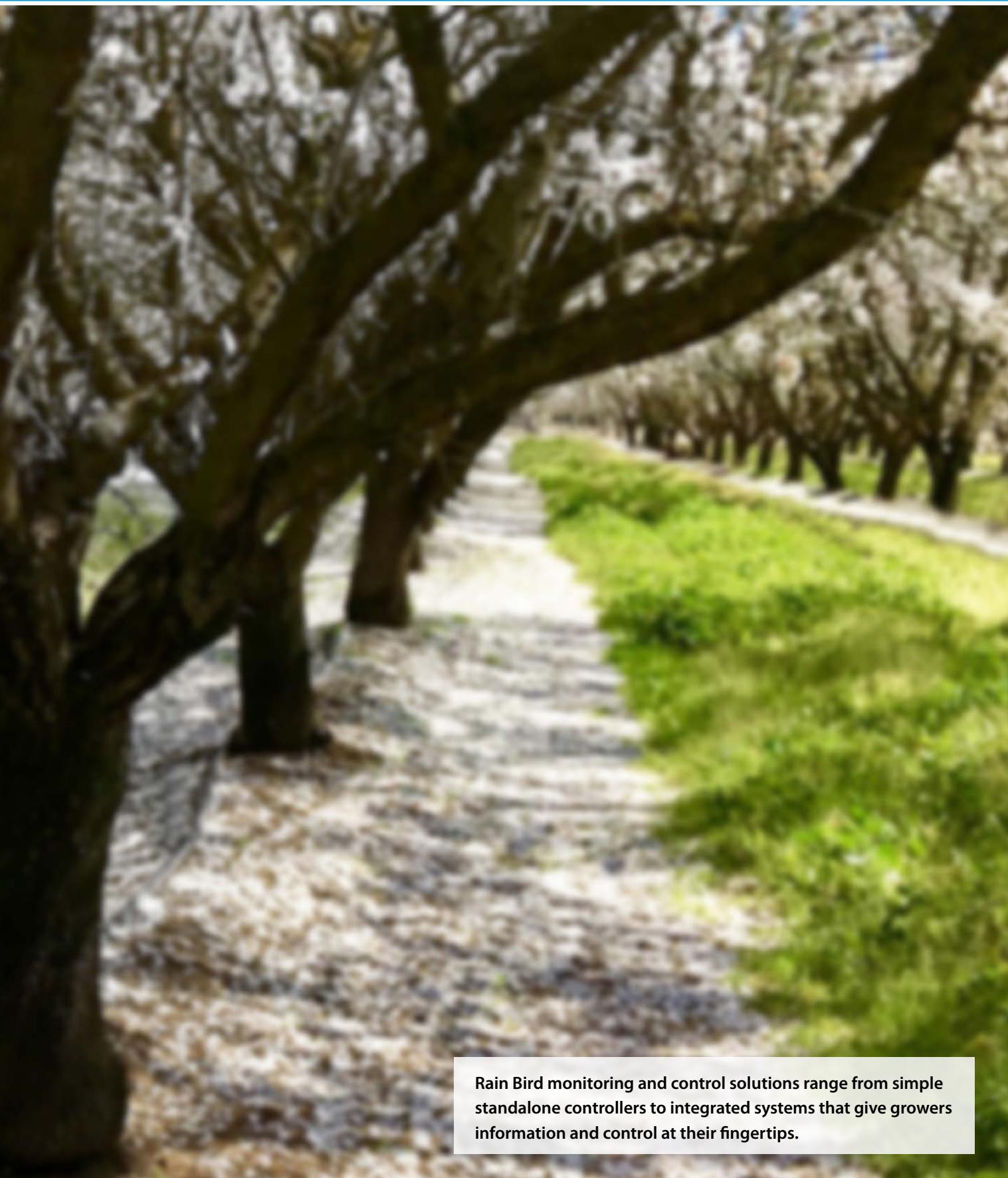
IMPACT
SPRINKLERS

MONITORING
&
CONTROLS

FILTRATION



Monitoring & Controls



Rain Bird monitoring and control solutions range from simple standalone controllers to integrated systems that give growers information and control at their fingertips.

CYCLIK™ Wireless Automatic Control System

The only Rain Bird controller that allows multiple valves to be time synchronized, providing greater flexibility and control. Connect the control module to the solenoid, and the solenoid to the valve. Now download your easily programmed irrigation schedule from the Field Transmitter to the Control Module via a weatherproof optical port. It's that easy.

Features

- Accurate, synchronized control of up to 85 valves without control wires or AC power
- Weatherproof operation
- Simple menu-driven programming
- On/Off Control: The program is kept from operating until an 'on' command is received
- One year control module operation with one 9-volt alkaline battery

Benefits

- Low cost installation
- Saves time, reduces errors
- Unauthorized individuals cannot change irrigation programs
- Economical automation

Models

JA1100: CYCLIK CI Field Transmitter

Open and close valves in a sequence.

Key Features

- Works with single station control modules
- Max irrigation time is 23 hours 55 minutes
- Max valve overlap is 120 seconds
- Max 14 days between irrigation cycles
- Up to 85 control modules

JA 1300 : CYCLIK Micro Field Transmitter

Open and close valves at specific times per day.

Micro Mode A Key Features

- 1, 2, or 4 station control modules
- Stations control up to 8 start/run times a day
- Assign an independent program to each station

Micro Mode B Key Features

- Up to 2 irrigation operating windows per day
- 10 seconds to 99 minute run time
- 1 minute to 99 minute "soak time"



Additional Items

- 118253:** 2-Way Latching Solenoid
- JA3000:** 3-Way Latching Solenoid
- JA3001:** Control Module – 1 Station
- JA3002:** Control Module – 2 Stations
- JA3004:** Control Module – 4 Stations
- 71P51018:** Bracket (attach control module to valve)

ESP-LX Series Controllers



With a large display, simple-to-use 'hand', 'off', 'auto' dial, English/Spanish language support, and extra simple programming, these controllers dramatically cut installation and troubleshooting time.

ESP-LXD Decoder Controller

The result of 40 years of expertise and thousands of installed units, the ESP-LXD is a modern, reliable, two-wire decoder controller.

Controller Options

CMLXDWOM: ESP-LXD 50 station two wire decoder controller

CMLXDSM75: 75 station expansion module

Field Decoders

CMLXFD101: Between the signal line and valve

CMLXFD102: Between the signal line and two valves

CMLXFD202: Between the signal line and two valves or two pairs of valves

CMLXSD210: Signal line and analog or digital sensor

CMLXLSP1: Line surge protection



Features

- Two-wire run lengths up to 2.5 miles (4 km)
- Control well, boost, fertigation, and other pumps
- Proven reliability over wireless systems
- Up to 96 hours of continuous runtime
- Up to 8 simultaneous stations
- Expandable to 200 stations
- Upgradeable to remote access with web enabled device

ESP-LXME Modular Controller

The same power, history, and functionality of the ESP-LXD in a traditionally wired solution.

Controller Options

CMLXMEWOM: ESP-LXME 8 Station controller

CMLXMESM12: 12 Station module

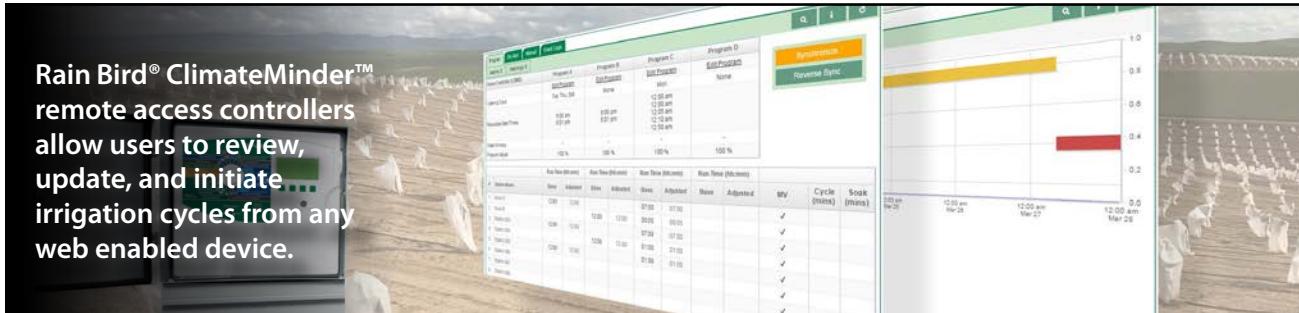
CMLXMEFSM: Flow Smart Module



Features

- Expandable from 8 to 48 stations
- Proven reliability over wireless systems
- Up to 5 simultaneous stations
- Optional Flow Smart Module
- Upgradeable to remote access with web enabled device

ESP-LX with ClimateMinder™ Control



ESP-LX with ClimateMinder™ Controls have the ease of use of the standalone ESP-LX controllers, with a plug and play cellular cartridge for remote on-demand access and to create or modify irrigation programs.

Features

From any web enabled device growers can:

- Create or modify irrigation programs
- Move irrigation sets
- Adjust the irrigation schedule for the next seven days
- Manually start or stop a station or program
- Check current and remaining runtimes
- Change the controller between off, auto, or manual
- Reverse synchronize any changes made in the field to the remote system



Controller Options

CMLXD: ClimateMinder ESP-LXD 50 station two wire decoder controller with cell modem and ClimateMinder access

CMLXME: ClimateMinder ESP-LXME 8 station traditionally wired controller with cell modem and ClimateMinder access

Accessories

CMLXEXTANT: External GPRS Antenna (optional)

Additional options and accessories for this item are listed on the ESP-LX main page page 81.

Upgrade Kit to Convert Standalone ESP-LX Controllers

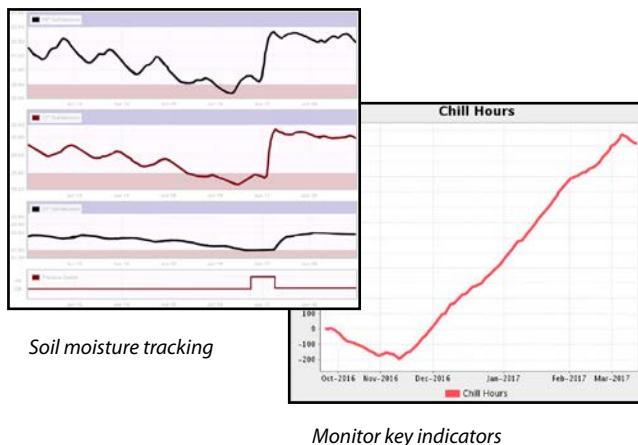
Upgrade existing ESP-LX controllers to add remote access with this simple plug and play cell modem kit. The kit contains the cell network communication cartridge and internal cellular antenna. There is an option for an external antenna if needed.

CMLXNCCGP: GPRS/Cellular Network Communication Cartridge with internal antenna

CMLXEXTANT: External GPRS Antenna (optional)

ClimateMinder™ products are sold through Authorized ClimateMinder Resellers only. For information on how to become an Authorized ClimateMinder Reseller, please contact Customer Service.

ClimateMinder™ Professional Monitoring



The Hardware

We call it the Gateway, a tower packed with sensors that accurately and reliably record and send readings to the cloud. This data is processed and the actionable results are displayed on the ClimateMinder website or sent straight to users in easy to read reports.

To expand decision making abilities, additional sensor nodes can be installed. Packed with the same sensing abilities, these nodes send data to the Gateway where it is forwarded on to the cloud.

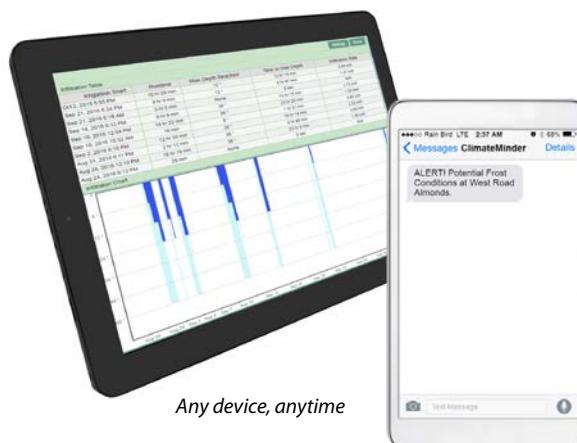
With solar recharging batteries, self-healing network, and quality Rain Bird® soil probes, growers don't have to worry about hardware, just about what can be done with the mission critical real-time data the system provides.

Features

- Soil moisture tracking
- Irrigation event and water infiltration tracking
- Frost alerts
- Chill hours and growing degree days
- Field level ET calculation
- Pressure and filter monitoring
- Flow monitoring and reporting
- Weekly, monthly, and annually applied water reporting
- Weather (temp, humidity, wind and rain) monitoring

Benefits

- Increase crop yield and quality
- Reduce plant stress
- Stop leaching fertilizer
- Respond instantly to frost events
- Know your flow and pressure
- Easy regulatory reporting
- Field information always available



ClimateMinder™ products are sold through Authorized ClimateMinder Resellers only. For information on how to become an Authorized ClimateMinder Reseller, please contact Customer Service.

| ClimateMinder™ Professional Gateways (Pick One) | | | | | | | | | | |
|---|--|---------------------|-------------------|-----------------|-----------------|-----------|-----------------|-------------|--------------|---------|
| | | Gateway Part Number | Description | Moisture Depths | Pressure Switch | Soil Temp | Temp & Humidity | Wind & Rain | Leaf Wetness | Soil EC |
| Weather and Soil Sensors | | CMGW305 | 60" (1.5m) Probe | 6 | X | X | X | X | X | - |
| | | CMGW30548 | 48" (1.2m) Probe | 6 | X | X | X | X | X | - |
| | | CMGW30540 | 40" (1.0m) Probe | 6 | X | X | X | X | X | - |
| | | CMGW30532 | 32" (0.8m) Probe | 6 | X | X | X | X | X | - |
| | | CMGW30524 | 24" (0.6m) Probe | 6 | X | X | X | X | X | - |
| | | CMGW30516 | 16" (0.4m) Probe | 4 | X | X | X | X | X | - |
| | | CMGW321 | Two GS3 Probes | 2 | X | X | X | X | X | X |
| | | CMGW314 | Three GS3 Probes | 3 | X | X | X | X | X | X |
| Soil only | | CMGW310 | 60" (1.5m) Probe | 6 | X | X | - | - | - | - |
| | | CMGW31048 | 48" (1.2m) Probe | 6 | X | X | - | - | - | - |
| | | CMGW31040 | 40" (1.0m) Probe | 6 | X | X | - | - | - | - |
| | | CMGW31032 | 32" (0.8m) Probe | 6 | X | X | - | - | - | - |
| | | CMGW31024 | 24" (0.6m) Probe | 6 | X | X | - | - | - | - |
| | | CMGW31016 | 16" (0.4m) Probe | 4 | X | X | - | - | - | - |
| | | CMGW327 | Two GS3 Probes | 2 | X | X | - | - | - | X |
| | | CMGW316 | Three GS3 Probes | 3 | X | X | - | - | - | X |
| Weather only | | CMGW301 | Temp and Humidity | - | - | - | X | - | - | - |
| | | CMGW302 | Weather | - | - | - | X | X | X | - |
| Telemetry Only* | | CMGW3TRW | Weather Gateway | - | X | - | X | - | X | - |
| | | CMGW3TR | Soil Gateway | - | X | - | - | - | - | - |

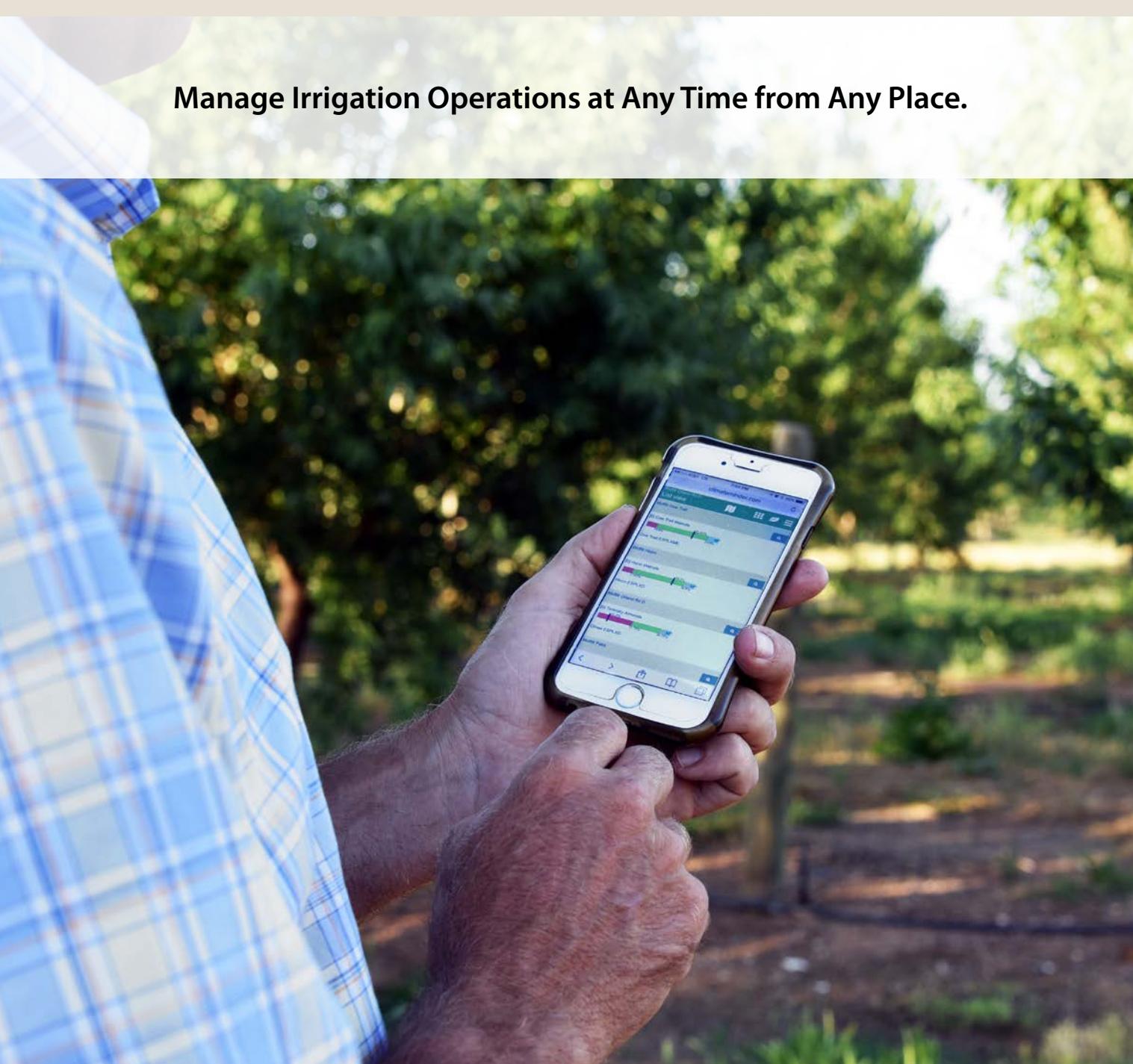
| ClimateMinder™ Professional Sensor Node (Optional) | | | | | | | | | | |
|--|--|-------------|-------------------|-----------------|-----------------|-----------|-----------------|-------------|--------------|---------|
| | | Part Number | Description | Moisture Depths | Pressure Switch | Soil Temp | Temp & Humidity | Wind & Rain | Leaf Wetness | Soil EC |
| Soil only | | CMSN3SM04 | 60" (1.5m) Probe | 6 | X | X | - | - | - | - |
| | | CMSN3SM048 | 48" (1.2m) Probe | 6 | X | X | - | - | - | - |
| | | CMSN3SM040 | 40" (1.0m) Probe | 6 | X | X | - | - | - | - |
| | | CMSN3SM042 | 32" (0.8m) Probe | 6 | X | X | - | - | - | - |
| | | CMSN3SM044 | 24" (0.6m) Probe | 6 | X | X | - | - | - | - |
| | | CMSN3SM046 | 16" (0.4m) Probe | 4 | X | X | - | - | - | - |
| | | CMSN3SM9 | Two GS3 Probes | 2 | X | X | - | - | - | X |
| | | CMSN3SM6 | Three GS3 Probes | 3 | X | X | - | - | - | X |
| Weather only | | CMSN3TH | Temp and Humidity | - | - | - | X | - | - | - |
| Telemetry Only* | | CMSN3TR | Mesh Tower | - | X | - | - | - | - | - |

*Telemetry only units are typically used for competitive conversions where some sensors are already installed

| ClimateMinder™ Professional Accessories | |
|---|--|
| Part Number | Description |
| CMIKRPT | Signal repeater to increase reliability between mesh and gateway stations |
| CMIKRPTSOL | Solar charging kit for repeater includes: solar charger, battery, and solar panel |
| CMRPTWR | Tower assembly kit (10-12 feet total length) |
| CMRPYANT | Cellular modem antenna boost kit includes: antenna, 20' (6.1m) cable and SMA adapter |

ClimateMinder™ products are sold through Authorized ClimateMinder Resellers only. For information on how to become an Authorized ClimateMinder Reseller, please contact Customer Service.

Manage Irrigation Operations at Any Time from Any Place.



Monitor

ClimateMinder monitoring and alerts for field, weather, and crop conditions.

Control

ClimateMinder control for remote access to update irrigation schedule.

Report

ClimateMinder reports actionable intelligence to growers and designates.

Drip
Irrigation

Micro
Irrigation

Low Flow
Irrigation

Impact
Sprinklers

Monitoring
& Controls

Filtration

Filtration

DRIP
IRRIGATION

MICRO
IRRIGATION

LOW FLOW
IRRIGATION

IMPACT
SPRINKLERS

MONITORING
& CONTROLS

FILTRATION



Filtration



Algae, sand, silt and other solid contaminants that are commonly found in source water will lead to plugged outlet devices, silt deposits in equipment, inoperative valves, and a significant reduction in overall irrigation system efficiency. Rain Bird offers a wide range of filtration products to resolve these problems.

Rain Bird Filtration Overview

Rain Bird filters keep irrigation systems free of the contaminants that degrade performance and efficiency.

SM-Series Sand Media Filtration



One of the most efficient filtration methods for removing algae, organic matter, and other contaminants found in open reservoirs, canals and recycled water systems.

HDF-Series Automatic Disc Filters



Used as a primary filter for small irrigation systems or a back-up for select zones, this filter removes light sand and small contaminants from surface or well water sources.

G-Series Hydraulic Suction Scanning Filters



Powered by source line water pressure, the suction scanning screen filter provides worry free medium-flow rate filtered water quality.

C+ Series Hydraulic Suction Scanning Filters



Utilizes a two-stage screening process; stage 1 consists of a coarse screen for oversized contaminants, stage 2 removes remaining particles, achieving filtration to at specified level.

CS-Series Centrifugal Sand Separators



Designed to separate abrasive materials including sand, silt, and other grit particles before they enter the irrigation system.

PSS-Series Self-Cleaning Pump Suction Screen



Removes large trash and debris from water sources that could block flow and cause damage to the pump station or irrigation equipment.

Filtration Recommendations for Rain Bird Products

A5 PC™ Series Dripline:

120 mesh (125 micron)

Online Emitters:

120 mesh (125 micron)

Sprinklers:

200 mesh (80 micron)

Micro Bird® Spinners:

Vary by nozzle: 150 mesh (105 micron) minimum

Micro-Quick™ Sprays:

Black 0.026" (0.66mm) - 200 mesh (74 micron)
Orange 0.033" (0.84mm) - 170 mesh (93 micron)
Blue 0.038" (0.97mm) - 150 mesh (105 micron)
Violet 0.044" (1.12mm) - 130 mesh (118 micron)
Green 0.048" (1.22mm) - 120 mesh (125 micron)
Red 0.057" (1.45mm) - 100 mesh (150 micron)
White 0.068" (1.73mm) - 80 mesh (180 micron)

- For additional support or technical questions on Rain Bird Filters, please call 877-648-9523 or email filters@rainbird.com
- To place an order for filters in the United States call (800) HELLO AG (435-5624) or, use the Toll-FREE Fax Ordering number at (800) 843-4162.
- Customers outside the U.S. can contact the International Customer Service Department at (520) 878-2400 to place an order.

SM-Series Sand Media Filters

SM-Series Sand Media Filters provide a reliable, efficient, and long-term solution to a wide range of agriculture filtration applications. Available in carbon or stainless steel, these filters remove algae, sand, rock, grit, and other organic and inorganic contaminants and provide fine contaminant removal down to 75 microns (200 mesh).

Features

- High strength stainless steel wedgewire underdrain with collapse resistance in excess of 600 psi (41 bar)
- Removable underdrain system feature saves both labor and time during media change-out
- Easy-entry lid closure with weld tabs for operator safety
- Exterior tank on carbon steel product is powder coated with UV stabilized polyester powder coat for longer product life and greater protection from the environment



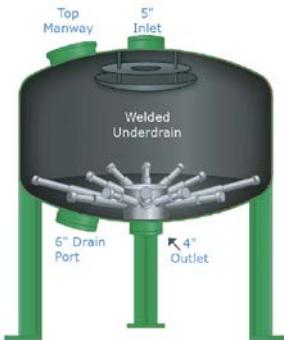
How to Order SM-Series Media Filters

| SM2 | 4816 | 5 | A | S | A8 | C | A3 | Mainline Connection |
|---------------|------------------------|--------------------|-----------------------------------|---------------------------|---|---|----|---|
| Series | Tank Size | No of Tanks | Style | Body Type | Controller | Layout Pattern | | |
| SM2 | 18" x 16" | 2-12 | A: Automatic S: Semi-automatic | C: Carbon S: Stainless | A#: Alextronix (A2, A3, A4, A8 or A12) SY: Synergy NC: No Controller | I: Inline End Feed C: Inline Center Feed U: End Feed U B: End Feed Block H: Center Feed H | | A1: Groove to Male, Steel A2: Groove to Female, Steel A3: Groove to Straight, PVC A4: Groove to Straight, Steel A5: Groove to Male, PVC |
| SM3 | 24" x 16" | | | | | | | |
| SM3.5 | 30" x 16" | | | | | | | |
| SM4 | 36" x 16" 48" x 16" | | | | | | | |

Additional options available, call for ordering instructions and support.

SM-Series Sand Media Filters (Continued)

Four models to meet variety of needs.



SM2

- Tank available in carbon or stainless steel
- Tank size options vary by material:
 - Carbon Steel: 14", 18", 24", 30", 36", 48"
 - Stainless Steel: 18", 24", 30", 36", 48"
- One drain port; 6" diameter for 36" and 48" tanks, all others 3" diameter
- Top manway covers vary by material and tank size
- Welded wedgewire underdrain
- Alex-Tronix controller and control box stand assembly included; AC, DC or DCL. Other options available upon request



SM3

- Available in 36" or 48" carbon or stainless steel
- Includes one 6" diameter drain port and 11x14" elliptical side manway
- Top manway cover sizes vary by material; carbon steel 10", stainless steel 8"
- Removable stainless steel wedgewire underdrain with schedule 80 PVC hub
- Alex-Tronix controller included. Other options available upon request
- Cross flow underdrain available upon request



SM3.5

- Available in 36" or 48" Carbon Steel
- Includes one 6" diameter drain port and 11x14" elliptical side manway
- Top manway cover: 10"
- Removable stainless steel wedgewire underdrain with schedule 80 PVC hub
- Alex-Tronix controller included. Other options available upon request
- Exterior UV powder coated and interior coated with 3M™ Scotchkote™
- Cross flow underdrain available upon request

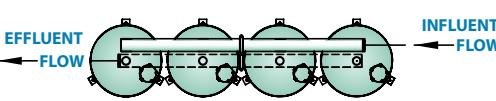


SM4

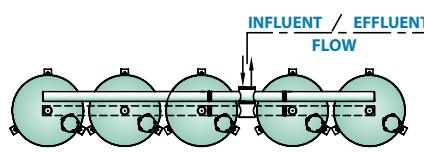
- Available in 48" Carbon Steel
- Includes two 6" diameter drain port and one 11x14" elliptical side manway
- Removable stainless steel wedgewire underdrain with schedule 80 PVC hub
- Top manway cover: 10"
- Alex-Tronix controller included. Other options available upon request
- Exterior UV powder coated and interior coated with 3M™ Scotchkote™
- Cross flow underdrain available upon request

Layout Pattern Options

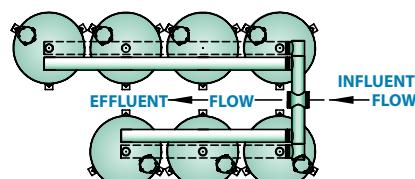
I: Inline End Feed



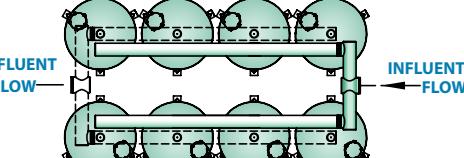
C: Inline Center Feed



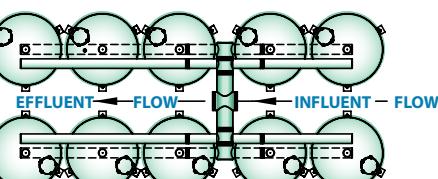
U: End Feed U



B: End Feed Block



H: Center Feed H



SM2 Automatic Sand Media Filters Performance Data

| Tank Diameter (in) | Number of Tanks | Flow Rate min-max | | Filtration Surface Area (ft²) | Media Required (ft²) | Max Pressure (psi) | | Common Layout | Model Number | |
|--------------------|-----------------|-------------------|---------|-------------------------------|----------------------|--------------------|-----------|--------------------|-------------------------|-------------------------|
| | | gpm | m³/h | | | Carbon | Stainless | | Carbon | Stainless |
| 14 | 2 | 37-53 | 8-12 | 2.1 | 2 | 150 | 100 | Inline End Feed | SM2-1416-2-A-C-A2-IA3 | |
| 18 | 2 | 60-88 | 14-20 | 3.5 | 3 | 150 | 100 | Inline End Feed | SM2-1816-2-A-C-A2-IA3 | SM2-1816-2-A-S-A2-IA3 |
| 18 | 3 | 90-133 | 20-30 | 5.3 | 5 | 150 | 100 | Inline End Feed | SM2-1816-3-A-C-A3-IA3 | SM2-1816-3-A-S-A3-IA3 |
| 24 | 2 | 107-158 | 24-36 | 6.3 | 7 | 150 | 100 | Inline End Feed | SM2-2416-2-A-C-A2-IA3 | SM2-2416-2-A-S-A2-IA3 |
| 24 | 3 | 160-235 | 36-53 | 9.4 | 11 | 150 | 100 | Inline End Feed | SM2-2416-3-A-C-A3-IA3 | SM2-2416-3-A-S-A3-IA3 |
| 30 | 2 | 167-245 | 38-56 | 9.8 | 10 | 125 | 100 | Inline End Feed | SM2-3016-2-A-C-A2-IA3 | SM2-3016-2-A-S-A2-IA3 |
| 30 | 3 | 255-368 | 57-84 | 14.7 | 15 | 125 | 100 | Inline End Feed | SM2-3016-3-A-C-A3-IA3 | SM2-3016-3-A-S-A3-IA3 |
| 36 | 2 | 240-353 | 55-80 | 14.1 | 14 | 105 | 80 | Inline End Feed | SM2-3616-2-A-C-A2-IA3 | SM2-3616-2-A-S-A2-IA3 |
| 36 | 3 | 360-530 | 82-120 | 21.2 | 21 | 105 | 80 | Inline End Feed | SM2-3616-3-A-C-A3-IA3 | SM2-3616-3-A-S-A3-IA3 |
| 48 | 2 | 425-625 | 97-142 | 25 | 26 | 80 | 80 | Inline End Feed | SM2-4816-2-A-C-A2-IA3 | SM2-4816-2-A-S-A2-IA3 |
| 48 | 3 | 638-938 | 145-213 | 37.5 | 39 | 80 | 80 | Inline End Feed | SM2-4816-3-A-C-A3-IA3 | SM2-4816-3-A-S-A3-IA3 |
| 48 | 4 | 850-1250 | 193-284 | 50 | 52 | 80 | 80 | Inline End Feed | SM2-4816-4-A-C-A4-IA3 | SM2-4816-4-A-S-A4-IA3 |
| 48 | 5 | 1063-1563 | 242-355 | 62.5 | 65 | 80 | 80 | Inline Center Feed | SM2-4816-5-A-C-A8-CA3 | SM2-4816-5-A-S-A8-CA3 |
| 48 | 6 | 1275-1875 | 290-426 | 75 | 78 | 80 | 80 | Inline Center Feed | SM2-4816-6-A-C-A8-CA3 | SM2-4816-6-A-S-A8-CA3 |
| 48 | 7 | 1488-2188 | 338-497 | 87.5 | 91 | 80 | 80 | End Feed U | SM2-4816-7-A-C-A8-UA3 | SM2-4816-7-A-S-A8-UA3 |
| 48 | 8 | 1700-2500 | 386-568 | 100 | 104 | 80 | 80 | End Feed U | SM2-4816-8-A-C-A8-UA3 | SM2-4816-8-A-S-A8-UA3 |
| 48 | 9 | 1913-2813 | 434-639 | 112.5 | 117 | 80 | 80 | Center Feed H | SM2-4816-9-A-C-A12-HA3 | SM2-4816-9-A-S-A12-HA3 |
| 48 | 10 | 2125-3125 | 482-710 | 125 | 130 | 80 | 80 | Center Feed H | SM2-4816-10-A-C-A12-HA3 | SM2-4816-10-A-S-A12-HA3 |

SM2 Semi-Automatic Sand Media Filters Performance Data

| Tank Diameter (in) | Number of Tanks | Flow Rate min-max | | Filtration Surface Area (ft²) | Media Required (ft²) | Max Pressure (psi) | | Common Layout | Model Number | |
|--------------------|-----------------|-------------------|---------|-------------------------------|----------------------|--------------------|-----------|--------------------|-------------------------|-------------------------|
| | | gpm | m³/h | | | Carbon | Stainless | | Carbon | Stainless |
| 14 | 2 | 37-53 | 8-12 | 2.1 | 2 | 150 | 100 | Inline End Feed | SM2-1416-2-S-C-A2-IA3 | |
| 18 | 2 | 60-88 | 14-20 | 3.5 | 3 | 150 | 100 | Inline End Feed | SM2-1816-2-S-C-A2-IA3 | SM2-1816-2-S-S-A2-IA3 |
| 18 | 3 | 90-133 | 20-30 | 5.3 | 5 | 150 | 100 | Inline End Feed | SM2-1816-3-S-C-A3-IA3 | SM2-1816-3-S-S-A3-IA3 |
| 24 | 2 | 107-158 | 24-36 | 6.3 | 7 | 150 | 100 | Inline End Feed | SM2-2416-2-S-C-A2-IA3 | SM2-2416-2-S-S-A2-IA3 |
| 24 | 3 | 160-235 | 36-53 | 9.4 | 11 | 150 | 100 | Inline End Feed | SM2-2416-3-S-C-A3-IA3 | SM2-2416-3-S-S-A3-IA3 |
| 30 | 2 | 167-245 | 38-56 | 9.8 | 10 | 125 | 100 | Inline End Feed | SM2-3016-2-S-C-A2-IA3 | SM2-3016-2-S-S-A2-IA3 |
| 30 | 3 | 255-368 | 57-84 | 14.7 | 15 | 125 | 100 | Inline End Feed | SM2-3016-3-S-C-A3-IA3 | SM2-3016-3-S-S-A3-IA3 |
| 36 | 2 | 240-353 | 55-80 | 14.1 | 14 | 105 | 80 | Inline End Feed | SM2-3616-2-S-C-A2-IA3 | SM2-3616-2-S-S-A2-IA3 |
| 36 | 3 | 360-530 | 82-120 | 21.2 | 21 | 105 | 80 | Inline End Feed | SM2-3616-3-S-C-A3-IA3 | SM2-3616-3-S-S-A3-IA3 |
| 48 | 2 | 425-625 | 97-142 | 25 | 26 | 80 | 80 | Inline End Feed | SM2-4816-2-S-C-A2-IA3 | SM2-4816-2-S-S-A2-IA3 |
| 48 | 3 | 638-938 | 145-213 | 37.5 | 39 | 80 | 80 | Inline End Feed | SM2-4816-3-S-C-A3-IA3 | SM2-4816-3-S-S-A3-IA3 |
| 48 | 4 | 850-1250 | 193-284 | 50 | 52 | 80 | 80 | Inline End Feed | SM2-4816-4-S-C-A4-IA3 | SM2-4816-4-S-S-A4-IA3 |
| 48 | 5 | 1063-1563 | 242-355 | 62.5 | 65 | 80 | 80 | Inline Center Feed | SM2-4816-5-S-C-A8-CA3 | SM2-4816-5-S-S-A8-CA3 |
| 48 | 6 | 1275-1875 | 290-426 | 75 | 78 | 80 | 80 | Inline Center Feed | SM2-4816-6-S-C-A8-CA3 | SM2-4816-6-S-S-A8-CA3 |
| 48 | 7 | 1488-2188 | 338-497 | 87.5 | 91 | 80 | 80 | End Feed U | SM2-4816-7-S-C-A8-UA3 | SM2-4816-7-S-S-A8-UA3 |
| 48 | 8 | 1700-2500 | 386-568 | 100 | 104 | 80 | 80 | End Feed U | SM2-4816-8-S-C-A8-UA3 | SM2-4816-8-S-S-A8-UA3 |
| 48 | 9 | 1913-2813 | 434-639 | 112.5 | 117 | 80 | 80 | Center Feed H | SM2-4816-9-S-C-A12-HA3 | SM2-4816-9-S-S-A12-HA3 |
| 48 | 10 | 2125-3125 | 482-710 | 125 | 130 | 80 | 80 | Center Feed H | SM2-4816-10-S-C-A12-HA3 | SM2-4816-10-S-S-A12-HA3 |

Parts and Accessories for SM-Series Sand Media Filters

Media

| Media Type | Bag Volume | Ship Weight (lbs) | Item Number |
|-------------------------------------|------------------|-------------------|-------------|
| Gravel Pack (#3) (1/1" - 3/4") | 0.75 Cu Ft / Bag | 80 | 148055075 |
| S47 (#20) Filtration Media (.47mm) | 1.0 Cu Ft / Bag | 100 | 148020047 |
| S65 (#16) Filtration Media (.65mm) | 1 Supersack | 100 | 148020016 |
| G78 (#11) Filtration Media (.78mm) | 1.0 Cu Ft / Bag | 4000 | 148010012 |
| G150 (#12) Filtration Media (1.5mm) | 1.0 Cu Ft / Bag | 100 | 148010008 |

Solar Pack

Solar pack is compatible with 12V DC latching solenoids and includes solar panel & battery pack, charge controller, wiring harness and enclosure box.

| Description | Item Number |
|--|-------------|
| Solar Package with Solar Panel, Battery Pack & Accessories | 252550004 |
| 12V DC Latching Solenoid compatible with Solar Package | 166012300 |

HDF-Series Automatic Disc Filters

Rain Bird HDF Series Automatic Disc Filters are ideal filtering surface and well water containing both organic and inorganic materials; rivers, reservoirs, canals, and well water containing light sand and other contaminants.



Features & Specifications

- High density polyethylene manifolds which resists rust and corrosion from chemicals and water
- Preassembled for easy installation
- Filtration grades can be easily changed
- Control unit allows backwash activation by time or pressure differential
- Control units available in 12V DC, 110V AC, and 220V AC. Specify when ordering
- Standard filtration 100 micron (150 mesh). Additional options include: 130 micron (120 mesh), 200 micron (75 mesh), and 400 micron (40 mesh)
- Maximum pressure: 145psi (10 bar)
- Maximum temperature: 140°F (60°C)

HDF-Series Automatic Disc Filters Performance Data

| Number of Canisters | Manifold Size (in) | Connection Type | Filtering Surface | | Model Number |
|---------------------|--------------------|-----------------|-------------------|-----------------|--------------|
| | | | in ² | cm ² | |
| 2 | 3 | Grooved | 463 | 2984 | 2X2/3G |
| 3 | 4 | Grooved | 694 | 4476 | 3X2/4G |
| 4 | 6 | Grooved | 925 | 5968 | 4X2/6G |
| 5 | 6 | Grooved | 1156 | 7460 | 5X2/6G |
| 6 | 6 | Grooved | 1388 | 8952 | 6X2/6G |
| 7 | 6 | Grooved | 1619 | 10444 | 7X2/6G |
| 8 | 8 | Grooved | 1850 | 11936 | 8X2/8G |

How to Order HDF-Series Automatic Disc Filters

3

X2

/4

G

No. of Canisters

- 1 - Quantity 1
2 - Quantity 2
3 - Quantity 3
4 - Quantity 4
5 - Quantity 5
6 - Quantity 6
7 - Quantity 7
8 - Quantity 8

Filter Size

X2 - 2"

Manifold Size (in)

- /2 - 2"
/3 - 3"
/4 - 4"
/6 - 6"
/8 - 8"

Connection Type

G - Grooved

G-Series Vertical Hydraulic Suction Scanning Filters

Rain Bird G-Series Hydraulic Suction Scanning Screen Filter provides worry free medium-flow rate filtered water quality. Powered by source line water pressure, the filter's backwashing system produces a concentrated high velocity and low volume reverse water flow to systematically clean the screen of any entrapped contaminants.



Features & Specifications

- Powder coated Carbon Steel single filter housing
- Omnitrol 150 AC or DC controller allowing filter to flush on differential pressure or time
- Includes hydraulic rinse valve. Inlet pressure during rinse cycle 35psi.
- Standard screen 200 micron (75 mesh). Additional options include: 300 micron (50 mesh), 120 micron (125 mesh), 100 micron (140 mesh). Specify screen rating when ordering
- Flow rates: 25 – 1750 gpm (5.7-397.5 m³/h)
- Working pressure: 35-150psi (2.4-10.3 bar)
- Maximum temperature: 210°F (98°C)
- Maximum operating pressure: 150 psi (10.3 bar)
- Minimum inlet pressure during rinse cycle: 30 psi (2.1 bar)

G-Series Vertical Hydraulic Suction Scanning Filters Performance Data

| Line Size (in) | Woven Screen Area (in ²) | Recommended Flow Rate (gpm) | | | | Flush Volume (gpm) | Rinse Duration (sec) | Flush Line Size (in) | Model Number |
|----------------|--------------------------------------|-----------------------------|----------------------|-----------------------|-----------------------|--------------------|----------------------|----------------------|--------------|
| | | 300 micron (50 mesh) | 200 micron (75 mesh) | 120 micron (125 mesh) | 100 micron (140 mesh) | | | | |
| 1 | 42 | 25 | 23 | 21 | 20 | 4 to 8 | 4 to 8 | 1 | HS-V-01-LE |
| 1.5 | 64 | 65 | 65 | 65 | 65 | 4 to 8 | 4 to 8 | 1 | HS-G-105-LE |
| 2 | 64 | 110 | 110 | 85 | 65 | 4 to 5 | 4 to 8 | 1 | HS-G-02-LE |
| 3 | 120 | 200 | 175 | 155 | 120 | 6 to 8 | 4 to 8 | 1 | HS-G-03-LE |
| 4 | 120 | 300 | 215 | 155 | 120 | 6 to 8 | 4 to 8 | 1.5 | HS-G-04-LS |
| 4 | 466 | 400 | 350 | 350 | 350 | 14 to 18 | 10 to 16 | 1.5 | HS-G-04-LE |
| 6 | 466 | 650 | 592 | 540 | 507 | 14 to 18 | 10 to 16 | 1.5 | HS-G-06-LS |
| 6 | 648 | 850 | 774 | 706 | 663 | 14 to 18 | 10 to 16 | 1.5 | HS-G-06-LE |
| 8 | 648 | 1300 | 1183 | 1079 | 1014 | 14 to 18 | 10 to 16 | 1.5 | HS-G-08-LS |
| 10 | 648 | 1750 | 1593 | 1453 | 1365 | 14 to 18 | 10 to 16 | 1.5 | HS-G-10-LS |

How to Order G-Series Vertical Hydraulic Suction Scanning Filters

HSG 01 LE

Series
HSG - G Series Hydraulic Suction

Line Size (in)
01 - 1"
015 - 1.5"
02 - 2"
03 - 3"
04 - 4"
06 - 6"
08 - 8"
10 - 10"

Length
LS - Length Standard
LE - Length Extended

C+ Series Automatic Hydraulic Suction Scanning Filters

Rain Bird C+ Automatic Hydraulic Suction Scanning Filters provide a compact, easy to service, cost effective filtration solution. This clamp-style filter is available in a horizontal or vertical configuration and utilizes a two-stage screening process to remove oversized contaminants and small particles.



Horizontal



Vertical

Features & Specifications

- Hydraulically driven filter, powered by line water pressure
- Clamp access to screen for easy maintenance
- 304 Stainless Steel single filter housing standard, 316 Stainless Steel optional; call for details
- Low flush volume with inlet pressure during rinse cycle 35psi.
- Available in various ratings; 300 micron (50 mesh), 200 micron (75 mesh), 120 micron (125 mesh), 100 micron (140 mesh); specify screen rating when ordering

C+ Series Horizontal Hydraulic Suction Scanning Filter Performance Data

| Line Size (in) | Sintered Screen Area (in ²) | Standard Flow Rate (gpm) | | | | Flush Volume (gpm) | Rinse Duration (sec) | Flush Line Size (in) | Model Number |
|----------------|---|--------------------------|----------------------|-----------------------|-----------------------|--------------------|----------------------|----------------------|--------------|
| | | 300 micron (50 mesh) | 200 micron (75 mesh) | 120 micron (125 mesh) | 100 micron (140 mesh) | | | | |
| 2 | 432 | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | HS-IC-02-A-S |
| 3 | 432 | 300 | 300 | 300 | 300 | 4 to 8 | 4 to 8 | 1 | HS-IC-03-A-S |
| 4 | 432 | 500 | 500 | 500 | 500 | 4 to 8 | 4 to 8 | 1 | HS-IC-04-A-S |
| 6 | 432 | 600 | 600 | 600 | 600 | 4 to 8 | 4 to 8 | 1.5 | HS-IC-06-A-S |
| 2 | 576 | 200 | 200 | 200 | 200 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-02-B-S |
| 3 | 576 | 300 | 300 | 300 | 300 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-03-B-S |
| 4 | 576 | 500 | 500 | 500 | 500 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-04-B-S |
| 6 | 576 | 1000 | 1000 | 960 | 920 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-06-B-S |
| 8 | 576 | 1200 | 1100 | 960 | 920 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-08-B-S |
| 2 | 720 | 200 | 200 | 200 | 200 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-02-C-S |
| 3 | 720 | 300 | 300 | 300 | 300 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-03-C-S |
| 4 | 720 | 500 | 500 | 500 | 500 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-04-C-S |
| 6 | 720 | 1000 | 1000 | 1000 | 1000 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-06-C-S |
| 8 | 720 | 1500 | 1375 | 1200 | 1150 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-08-C-S |
| 10 | 720 | 1500 | 1375 | 1200 | 1150 | 6 to 10 | 10 to 16 | 1.5 | HS-IC-10-C-S |

How to Order C+ Series Horizontal Hydraulic Suction Scanning Filters

| | | | | |
|---|---|--|--|----------------------------------|
| HS | IC | 02 | A | S |
| Series HS - Hydraulic Suction | Orientation IC - Horizontal Clamp | Line Size (in) 02 - 2" 03 - 3" 04 - 4" 06 - 6" 08 - 8" 10 - 10" | Screen Size (in²) A - 432 B - 576 C - 720 | Material S - Stainless |

C+ Series Vertical Hydraulic Suction Scanning Filter Performance Data

| Line Size (in) | Sintered Screen Area (in ²) | Recommended Flow Rate (gpm) | | | | Flush Volume (gpm) | Rinse Duration (sec) | Flush Line Size (in) | Model Number |
|----------------|---|-----------------------------|----------------------|-----------------------|-----------------------|--------------------|----------------------|----------------------|----------------|
| | | 300 micron (50 mesh) | 200 micron (75 mesh) | 120 micron (125 mesh) | 100 micron (140 mesh) | | | | |
| 0.75 | 58 | 50 | 50 | 50 | 50 | 1 to 4 | 2 to 6 | 1 | HS-GC-075-M-S |
| 1 | 58 | 75 | 75 | 75 | 75 | 1 to 4 | 2 to 6 | 1 | HS-GC-01-M-S |
| 1.5 | 58 | 100 | 96 | 85 | 80 | 1 to 4 | 2 to 6 | 1 | HS-GC-015-M-S |
| 2 | 58 | 100 | 96 | 85 | 80 | 1 to 4 | 2 to 6 | 1 | HS-GC-02-M-S |
| 1.5 | 144 | 150 | 150 | 150 | 150 | 3 to 5 | 4 to 8 | 1 | HS-GC-015-ML-S |
| 2 | 144 | 200 | 200 | 200 | 200 | 3 to 5 | 4 to 8 | 1 | HS-GC-02-ML-S |
| 3 | 144 | 300 | 275 | 240 | 230 | 3 to 5 | 4 to 8 | 1 | HS-GC-03-ML-S |
| 1 | 144 | 75 | 75 | 75 | 75 | 1 to 4 | 1 to 4 | 1 | HS-GC-01-A-S |
| 1.5 | 144 | 150 | 150 | 150 | 150 | 4 to 8 | 4 to 8 | 1 | HS-GC-015-A-S |
| 2 | 144 | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | HS-GC-02-A-S |
| 4 | 144 | 300 | 275 | 240 | 230 | 3 to 5 | 4 to 8 | 1 | HS-GC-04-ML-S |
| 3 | 144 | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | HS-GC-03-A-S |
| 2 | 288 | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | HS-GC-02-B-S |
| 3 | 288 | 300 | 300 | 300 | 300 | 4 to 8 | 4 to 8 | 1 | HS-GC-03-B-S |
| 4 | 288 | 300 | 400 | 400 | 400 | 4 to 8 | 4 to 8 | 1 | HS-GC-04-B-S |
| 2 | 432 | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | HS-GC-02-C-S |
| 3 | 432 | 300 | 300 | 300 | 300 | 4 to 8 | 4 to 8 | 1 | HS-GC-03-C-S |
| 4 | 432 | 500 | 500 | 500 | 500 | 4 to 8 | 4 to 8 | 1 | HS-GC-04-C-S |
| 6 | 432 | 600 | 600 | 600 | 600 | 4 to 8 | 4 to 8 | 1 | HS-GC-06-C-S |
| 3 | 432 | 300 | 300 | 300 | 300 | 6 to 10 | 10 to 16 | 1.5 | HS-GC-03-L-S |
| 4 | 576 | 500 | 500 | 500 | 500 | 6 to 10 | 10 to 16 | 1.5 | HS-GC-04-L-S |
| 8 | 576 | 600 | 600 | 600 | 600 | 4 to 8 | 4 to 8 | 1 | HS-GC-08-C-S |
| 6 | 576 | 1000 | 1000 | 960 | 920 | 6 to 10 | 10 to 16 | 1.5 | HS-GC-06-L-S |
| 4 | 720 | 500 | 500 | 500 | 500 | 6 to 10 | 10 to 16 | 1.5 | HS-GC-04-X-S |
| 6 | 720 | 1000 | 1000 | 1000 | 1000 | 6 to 10 | 10 to 16 | 1.5 | HS-GC-06-X-S |
| 8 | 720 | 1500 | 1375 | 1200 | 1150 | 6 to 10 | 10 to 16 | 1.5 | HS-GC-08-X-S |
| 10 | 720 | 1500 | 1375 | 1200 | 1150 | 6 to 10 | 10 to 16 | 1.5 | HS-GC-10-X-S |

How to Order C+ Series Vertical Hydraulic Suction Scanning Filters

| | | | | |
|---|---|--|--|--------------------------------------|
| HS <input type="checkbox"/> | GC <input type="checkbox"/> | 02 <input type="checkbox"/> | A <input type="checkbox"/> | S <input type="checkbox"/> |
| Series HS - Hydraulic Suction | Orientation GC - Vertical Clamp | Line Size (in) 075 - 0.75" 01 - 1" 015 - 1.5" 02 - 2" 03 - 3" 04 - 4" 06 - 6" 08 - 8" 10 - 10" | Screen Size (in²) M - 58 ML - 144 A - 144 B - 288 C - 432 L - 576 X - 720 | Material S - Stainless |

CS-Series Centrifugal Sand Separators

Rain Bird CS-Series Centrifugal Sand Separators are designed to separate abrasive particles before they can enter the irrigation system, keeping equipment clean and clear of debris to minimizes the amount of maintenance required on the irrigation system and increase operational efficiency.

Features & Specifications

- No moving parts
- 150 PSI carbon steel construction with threaded or flanged inlet/outlet connections
- Polyester powder coated for long service life
- Non-ASME code standard construction (ASME code construction available optionally)
- Capacities of 4 to 8300 gpm
- Simple installation (no electrical required)
- Efficient pre-filter to reduce sand load on downstream components
- Options include: automatic purge package, manual purge package, wall brackets, and support stands

CS-Series Vertical Centrifugal Sand Separators Performance Data



Vertical

| Inlet Size (in) | Maximum Flow Rate (gpm) | Length | | Weight (lbs) | Max Particle Size (in) | Flush Valve Size (in) | Model Number |
|-----------------|-------------------------|--------|-------|--------------|------------------------|-----------------------|--------------|
| | | In | cm | | | | |
| 0.5 | 10 | 20 | 50.8 | 13 | 0.625 | 1 | VCS-R5V |
| 0.75 | 20 | 20 | 50.8 | 15 | 0.375 | 1 | VCS-R7V |
| 1 | 38 | 30.5 | 77.5 | 26 | 0.5 | 1 | VCS-R10V |
| 1.25 | 52 | 30.5 | 77.5 | 26 | 0.5 | 1 | VCS-R12V |
| 1.5 | 79 | 30.5 | 77.5 | 26 | 0.5 | 1 | VCS-R15V |
| 2 | 120 | 36 | 91.4 | 44 | 0.5 | 2 | VCS-R20V |
| 2.5 | 180 | 44 | 111.8 | 55 | 0.5 | 2 | VCS-R25V |
| 3 | 260 | 48 | 121.9 | 75 | 0.5 | 2 | VCS-R30V |
| 4 | 345 | 52 | 132.1 | 120 | 0.5 | 2 | VCS-R40V |

CS-Series Angled Centrifugal Sand Separators Performance Data



Angled

| Inlet Size (in) | Maximum Flow Rate (gpm) | Length | | Weight (lbs) | Max Particle Size (in) | Flush Valve Size (in) | Model Number |
|-----------------|-------------------------|--------|-------|--------------|------------------------|-----------------------|--------------|
| | | In | cm | | | | |
| 4 | 525 | 80 | 221 | 280 | 1.5 | 2 | ACS-R40LA |
| 6 | 960 | 106.25 | 293.4 | 493 | 1.5 | 2 | ACS-R60LA |
| 8 | 1600 | 114 | 316.4 | 722 | 1.5 | 2 | ACS-R80LA |
| 10 | 2300 | 123.5 | 342.9 | 840 | 1.5 | 2 | ACS-R100LA |
| 12 | 3400 | 139 | 396.2 | 1400 | 1.5 | 2 | ACS-R120LA |
| 14 | 5000 | 148 | 424.2 | 1550 | 2 | 2 | ACS-R140LA |
| 16 | 6200 | 160 | 462.3 | 1850 | 2 | 2 | ACS-R160LA |
| 18 | 8300 | 177 | 462.3 | 2400 | 2 | 3 | ACS-R180LA |

How to Order CS-Series Centrifugal Sand Separators

VCS

Series

VCS - Vertical Centrifugal Separators
ACS - Angled Centrifugal Separators

R5

Inlet Size (in)

R5 - 0.5" R40 - 4"
R7 - 0.75" R60 - 6"
R10 - 1" R80 - 8"
R12 - 1.25" R100 - 10"
R15 - 1.5" R120 - 12"
R20 - 2" R140 - 14"
R25 - 2.5" R160 - 16"
R30 - 3" R180 - 18"

V

Orientation

V - Vertical
LA - Angled

PSS-Series Self-Cleaning Pump Suction Screen

Rain Bird PSS Series Self-Cleaning Pump Suction Screen was designed to keep debris out of the pump and irrigation system. Water passes through the pump suction screen attached to the end of the pump suction line before entering the pump intake pipe. A small, side-stream from the pump discharge pumping drives two spray bars that continually rotate, jetting water at the screen and blasting debris away.



Features & Specifications

- Galvanized steel body construction with removable exterior basket for service
- Recommended backwash pressure: 45psi (minimum: 22psi)
- Heavy 12 mesh stainless steel screen fabric increases the pump efficiency for years to come
- Custom mesh sizes available: 4, 8, 18, and 24
- Standard flanged connections – others adapters available upon request

PSS-Series Self-Cleaning Pump Suction Screen Performance Data

| Flange Size (in) | Max Flow Rate | | Screen Length (in) | Total Length (in) | Screen Diameter (in) | Flange Size (in) | Return Inlet Pipe Size (in) | Operating Pressure min-max (psi) | Weight (lbs) | Cleaning Spray (gpm) | Model Number |
|------------------|---------------|------|--------------------|-------------------|----------------------|------------------|-----------------------------|----------------------------------|--------------|----------------------|--------------|
| | gpm | m³/h | | | | | | | | | |
| 4 | 325 | 74 | 11 | 25 | 16 | 4 | 1.5 | 35-100 | 38 | 20 | PSS200 |
| 6 | 550 | 125 | 15 | 28.8 | 16 | 6 | 1.5 | 40-100 | 57 | 20 | PSS400 |
| 8 | 750 | 170 | 16 | 32.5 | 24 | 8 | 1.5 | 40-100 | 101 | 20 | PSS600 |
| 10 | 950 | 216 | 18 | 34.5 | 24 | 10 | 1.5 | 45-100 | 108 | 20 | PSS800 |
| 10 | 1350 | 307 | 23 | 39.5 | 24 | 10 | 1.5 | 50-100 | 116 | 24 | PSS1000 |
| 12 | 1650 | 375 | 26 | 42.5 | 24 | 12 | 1.5 | 55-100 | 128 | 24 | PSS1400 |
| 12 | 1950 | 443 | 28 | 44.5 | 26 | 12 | 1.5 | 55-100 | 148 | 24 | PSS1700 |
| 14 | 2350 | 534 | 32 | 48.5 | 26 | 14 | 1.5 | 60-100 | 160 | 24 | PSS2000 |
| 16 | 2600 | 590 | 35 | 52.5 | 30 | 16 | 1.5 | 65-100 | 223 | 28 | PSS2400 |
| 16 | 3000 | 681 | 40 | 57.5 | 30 | 16 | 1.5 | 40-65 | 236 | 44 | PSS3000 |
| 18 | 3500 | 795 | 40 | 59.5 | 36 | 18 | 1.5 | 50-65 | 283 | 44 | PSS3500 |
| 18 | 4000 | 908 | 40 | 63.5 | 42 | 18 | 1.5 | 40-65 | 358 | 44 | PSS4000 |

How to Order PSS-Series Pump Suction Screens

Order using the model number noted above.

"M" Pressure Regulators

Accurate Pressure Regulation at an Economical Price

- Preset outlet pressure regulators
- 3/4" (20mm) female inlet and outlet
- Choice of 6 outlet pressures

Features and Benefits

PSI series regulators hold outlet pressure at a pre-set level. Regulated outlet pressures are available from 15 to 50 psi / 1.0 to 3.4 bar. As either inlet pressure or flow changes, the outlet pressure remains relatively constant.

- Diaphragm operated
- Use in above and below ground applications
- Manufactured from rugged engineering grade plastic

"M" Series

Recommended for most operating conditions. This series is designed to withstand surges up to 100 psi / 6.8 bar greater than the rated outlet pressures, where high inlet pressures are combined with high flows.

- Flow Range - 2-10 gpm (0.5-2.27 m³/hr, 0.13-0.63 l/s)

Models

- PSI-M

| Regulated Outlet Pressure | | |
|---------------------------|----------------|--------------|
| Model Number | US Units (psi) | Metric (bar) |
| PSI-M | 15 | 1.0 |
| | 20 | 1.4 |
| | 25 | 1.7 |
| | 30 | 2.1 |
| | 40 | 2.8 |
| | 50 | 3.4 |



How To Specify

PSI - M - 30

Outlet Pressure
6 = 6 psi (0.4)
10 = 10 psi (0.7 bar)
15 = 15 psi (1.0 bar)
20 = 20 psi (1.4 bar)
25 = 25 psi (1.7 bar)
30 = 30 psi (2.1 bar)
40 = 40 psi (2.8 bar)
50 = 50 psi (3.4 bar)

Pressure Range
M = Medium Pressure

Model
PSI

Customer Satisfaction Policy and Online Resources

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, lighting and flooding, are not covered by this Customer Satisfaction Policy. This commitment to repair or replace is our sole and total warranty.

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IF APPLICABLE, ARE LIMITED TO ONE YEAR FROM THE DATE OF SALE

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

AGRICULTURAL PRODUCTS

- A5 PC Pressure Compensating AG Dripline – Five Years on Product Workmanship, Seven Years on Environmental Stress Cracking
- PE Polyethylene Tubing - Seven Years on Product Workmanship, Seven Years on Environmental Stress Cracking
- LF™ and LFX™ Series Sprinklers – Five Years
- Brass Impact Sprinklers- Five Years
- Plastic Impact Sprinklers – Two Years
- All other agricultural products – One Year

HOW TO ORDER

- Toll-free, 800 fax number is available exclusively for fax orders: (800) 843-4162
- Toll-free, 800 phone number is available exclusively for phone orders: (800) 435-5624
- Toll-free, Rain Bird Technical Service (RBTS): (800) 247-3782
- Customers Outside the U.S. call: (520) 878-2400
- Place orders, check pallet or carton quantities, or track shipping at www.rainbird.com/distributor

Thank you for choosing Rain Bird. If you have any questions, please contact your Customer Service representative or District Sales Manager for assistance. We welcome any suggestions you may have for making your partnership with Rain Bird AG a pleasant, effective and positive experience.



A legacy of agricultural innovation.

Rain Bird has a rich history serving the agricultural community. Beginning in 1933 with the invention of the original horizontal action impact drive sprinkler by a Glendora, California citrus farmer (U.S. Patent #1,997,901), Rain Bird revolutionized the food production industry and ushered in a new era in irrigation, worldwide. The original impact sprinkler was designated a historic landmark in 1990 by the American Society of Agricultural Engineers.

For over eighty years, we've been developing new and innovative products that water more intelligently and our work is not done yet. 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 The Intelligent Use of Water™, bringing expertise and knowledge to further increase irrigation efficiency, minimize maintenance costs and enhance the health of crops.

Visit www.rainbird.com/ag for more information.



Rain Bird Agri-Products

970 West Sierra Madre Avenue
Azusa, CA 91702
Phone: (800) HELLO-AG (800-435-5624)
Fax: (626) 812-3411

Rain Bird Corporation

6991 E. Southpoint Road
Tucson, AZ 85756
Phone: (520) 741-6100
Fax: (520) 741-6522

Rain Bird International, Inc.

1000 West Sierra Madre
Azusa, CA 91702
Phone: (626) 963-9311
Fax: (626) 852-7343

Rain Bird Technical Services

(800) RAINBIRD (1-800-724-6247)
(U.S. and Canada)

www.rainbird.com