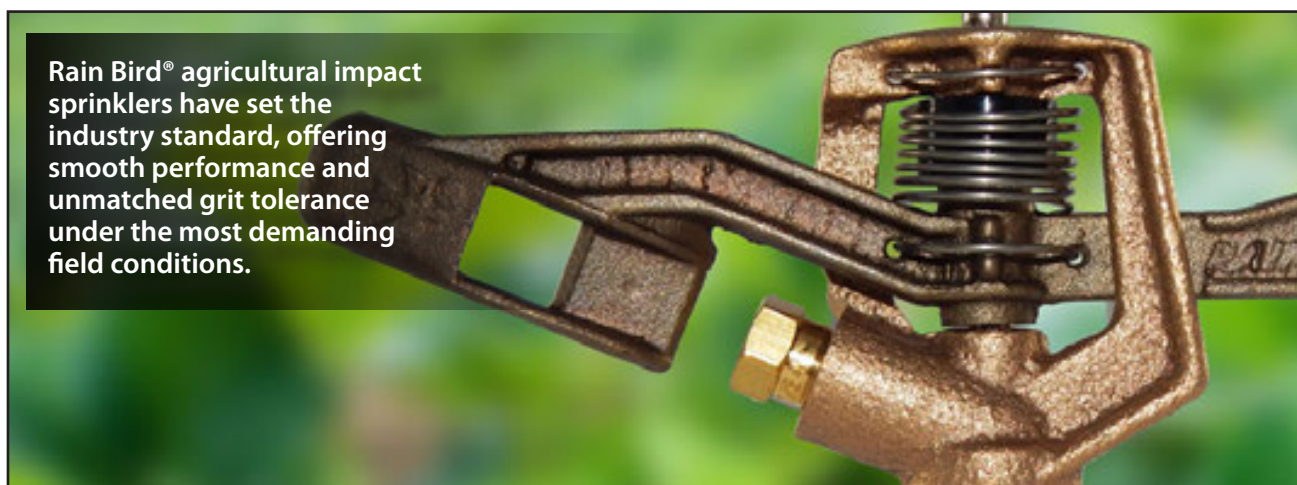




Rain Bird introduced the first impact sprinkler to the market in 1933 (U.S. Patent 1,997,901), ushering in the era of efficient modern irrigation. Our commitment to offering superior impact sprinklers is as strong today as it was 80 years ago.

Impact Sprinklers



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
Assembled Sprinkler/Nozzle Factory Combination		Brass Straight Bore Nozzle	SBN-1	105780-XX	04	51	05	06	07	
Sprinkler with Nozzle		Item number for Sprinkler Only			Item number for Nozzle Only		Available Nozzle Size. Use this number to complete the Nozzle item number			
SBN-1 5/64"		Item number for Assembled Sprinkler and Nozzle, when available								
A0162005										

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		

Quick Reference Selection Guide

Full Circle Impact Sprinklers																											
Model	Drive	Arm	Spreader Nozzle Port	Operating Pressure Range (psi)	Bearing Size					Throw Radius (ft)																	
					1/2" Male NPT	3/4" Male NPT	1" Female NPT	1" Male NPT	1-1/4" Male NPT	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
14VH	Wedge	Brass	No	20-60	●					29-38																	
20JH	Spoon	Brass	No	35-60	●					38-44																	
L36H	Spoon	Plastic	Yes	20-60		●				40-61																	
48H	Spoon	Plastic	Yes	30-80		●				42-60																	
30H	Spoon	Brass	Yes	25-80		●				40-56																	
30WH	Spoon	Brass	Plugged	25-80		●				40-56																	
30FH	Spoon	Brass	Yes	25-80		●				39-43																	
30FWH	Spoon	Brass	Plugged	25-80		●				39-43																	
70CH	Spoon	Brass	Yes	40-80			●			57-82																	

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

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: .056-2.68 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"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
20	-	-	29	0.59	30	0.79	33	1.14	34	1.55
25	29	0.56	29	0.65	31	0.88	33	1.27	35	1.73
30	29	0.62	30	0.71	31	0.97	34	1.39	35	1.90
35	30	0.66	30	0.77	32	1.05	34	1.50	36	2.05
40	30	0.72	31	0.83	32	1.12	35	1.61	37	2.19
45	31	0.75	31	0.87	33	1.19	35	1.71	37	2.32
50	31	0.80	32	0.92	34	1.25	36	1.80	38	2.45
55	32	0.84	32	0.96	34	1.31	36	1.89	38	2.57
60	32	0.88	33	1.01	34	1.37	37	1.97	38	2.68

Straight Bore Nozzle (SBN-1) Performance*

METRIC

bar @ Nozzle	NOZZLE SIZE (Stream Height: 1.8m)														
	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)
1.4	-	-	-	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.

Item 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.

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"			
	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* METRIC												
bar @ Nozzle	NOZZLE SIZE (Stream Height: 1.8m)											
	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)											
	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.

Item 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			XX = Nozzle Size			
U.S. Standard			7/64"	1/8"	9/64"	5/32"
Metric			2.78 mm	3.18 mm	3.57 mm	3.97 mm
Brass Straight Bore Nozzle	SBN-1	105780-XX	07	08	09	10
Brass Straight Bore Nozzle with Vane	SBN-1-V	106160-XX	—	08	09	10

Bold nozzle size number denotes the most common nozzle choice.

L36H

3/4" (19mm) 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 (2.4-4.1 bar)
- Flow Rate: 4.2-7.8 gpm (0.95-1.77 m³/h)
- Radius: 48-55 ft. (14.8-16.9m)
- Nozzle Port: Plastic Quick-Fit

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

psi@ Nozzle	NOZZLE SIZE					
	5/32"		11/64"		3/16"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
35	48	4.20	49	5.00	50	6.00
40	49	4.50	51	5.40	52	6.40
45	51	4.70	52	5.70	53	6.80
50	53	5.00	54	6.00	54	7.20
55	53	5.20	54	6.30	55	7.50
60	54	5.40	55	6.60	55	7.80

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

METRIC

bar @ Nozzle	NOZZLE SIZE					
	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)
2.4	14.8	0.26	0.95	15.1	0.32	1.14
2.5	14.9	0.27	0.97	15.2	0.32	1.16
3.0	15.5	0.29	1.05	15.9	0.35	1.27
3.5	16.2	0.32	1.14	16.5	0.38	1.37
4.0	16.4	0.34	1.21	16.7	0.41	1.47
4.1	16.5	0.34	1.23	16.8	0.42	1.50
				16.9	0.42	1.50
				16.9	0.49	1.77

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

* Nozzles must be purchased separately. See Chart below.



Item Numbers and Ordering Information

Sprinkler Only		Nozzle Only			
		XX = Nozzle Size			
		U.S. Standard		Metric	
		5/32"		11/64"	
		3.97mm		4.37mm	
		4.76mm			
Sprinkler without Nozzle	A07360	Plastic Quick-Fit Straight Bore Nozzle	QF-SBN-3	107881-XX	
				10	11
					12

Bold nozzle size number denotes the most common nozzle choice.

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



Plastic Nozzle with Plug Performance										
psi@ Nozzle	NOZZLE SIZE									
	5/32"		11/64"		3/16"		13/64"		7/32"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
30	-	-	-	-	46	5.43	49	6.18	48	7.1
35	44	4.22	46	5.02	47	5.88	50	6.68	50	7.69
40	46	4.5	48	5.48	50	6.26	52	7.22	50	8.27
45	46	4.82	50	5.78	51	6.68	52	7.67	54	8.81
50	48	5.03	51	6.17	52	7.1	53	8.12	54	9.29
55	50	5.37	51	6.44	52	7.47	54	8.54	57	9.78
60	50	5.54	51	6.67	52	7.7	55	8.93	58	10.25
65	50	5.81	52	7.09	53	8.15	56	9.27	58	10.73
70	51	6.04	54	7.33	54	8.45	56	9.66	58	11
75	51	6.22	54	7.58	55	8.72	57	10	58	11.46
80	51	6.46	55	7.84	55	8.97	57	10.31	59	11.8

Plastic Nozzle with 3/32" Spreader Nozzle Performance											
psi@ Nozzle		NOZZLE SIZE									
		5/32"		11/64"		3/16"		13/64"		7/32"	
		Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
30	-	-	-	-	44	6.4	46	7.26	47	8.22	
35	44	5.4	44	6.25	45	7	48	7.9	49	8.91	
40	46	5.77	46	6.69	47	7.53	50	8.4	51	9.49	
45	46	6.16	48	7.16	49	7.98	51	8.98	52	10.19	
50	47	6.54	49	7.58	50	8.45	52	9.46	54	10.7	
55	47	6.84	50	7.91	52	8.94	53	9.94	54	11.19	
60	48	7.18	50	8.26	53	9.26	54	10.27	56	11.8	
65	49	7.46	51	8.61	54	9.7	54	10.85	58	12.1	
70	50	7.72	52	8.97	54	10.09	56	11.23	59	12.72	
75	51	7.97	53	9.17	56	10.35	56	11.69	60	12.95	
80	51	8.28	54	9.51	56	10.7	57	12.01	60	13.56	

Plastic Nozzle with 1/8" Spreader Nozzle Performance										
psi@ Nozzle	NOZZLE SIZE									
	5/32"		11/64"		3/16"		13/64"		7/32"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
30	-	-	-	-	44	6.89	45	7.7	46	8.63
35	42	5.91	44	6.73	44	7.43	47	8.34	48	9.27
40	45	6.32	45	7.24	46	8.02	49	8.91	50	10.03
45	46	6.72	46	7.66	48	8.54	50	9.46	52	10.63
50	46	7.1	48	8.1	50	9.01	52	10.04	54	11.19
55	46	7.46	49	8.4	52	9.37	54	10.54	56	11.84
60	47	7.76	50	8.88	52	9.89	54	11.04	56	12.3
65	48	8.11	50	9.32	52	10.31	56	11.5	57	12.87
70	48	8.39	51	9.59	54	10.66	56	11.95	58	13.29
75	48	8.75	51	9.92	55	11.08	57	12.33	58	13.85
80	49	8.99	52	10.25	55	11.46	58	12.75	60	14.24

* Nozzles must be purchased separately. See Chart below.

Item 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

48H

Plastic Nozzle with Plug Performance										METRIC
psi@ Nozzle	NOZZLE SIZE									
	5/32"		11/64"		3/16"		13/64"		7/32"	
	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)
2.1	-	-	-	-	14.0	1230	14.9	1400	14.6	1610
2.4	13.4	960	14.0	1140	14.3	1340	15.2	1520	15.2	1750
2.8	14.0	1020	14.6	1240	15.2	1420	15.8	1640	15.2	1880
3.1	14.0	1090	15.2	1310	15.5	1520	15.8	1740	16.5	2000
3.4	14.6	1140	15.5	1400	15.8	1610	16.2	1840	16.5	2110
3.8	15.2	1220	15.5	1460	15.8	1700	16.5	1940	17.4	2220
4.1	15.2	1260	15.5	1510	15.8	1750	16.8	2030	17.7	2330
4.5	15.2	1320	15.8	1610	16.2	1850	17.1	2110	17.7	2440
4.8	15.5	1370	16.5	1660	16.5	1920	17.1	2190	17.7	2500
5.2	15.5	1410	16.5	1720	16.8	1980	17.4	2270	17.7	2600
5.5	15.5	1470	16.8	1780	16.8	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. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)
2.1	-	-	-	-	13.4	1450	14.0	1650	14.3	1870
2.4	13.4	1230	13.4	1420	13.7	1590	14.6	1790	14.9	2020
2.8	14.0	1310	14.0	1520	14.3	1710	15.2	1910	15.5	2160
3.1	14.0	1400	14.6	1630	14.9	1810	15.5	2040	15.8	2310
3.4	14.3	1490	14.9	1720	15.2	1920	15.8	2150	16.5	2430
3.8	14.3	1550	15.2	1800	15.8	2030	16.2	2260	16.5	2540
4.1	14.6	1630	15.2	1880	16.2	2100	16.5	2330	17.1	2680
4.5	14.9	1690	15.5	1960	16.5	2200	16.5	2460	17.7	2750
4.8	15.2	1750	15.8	2040	16.5	2290	17.1	2550	18.0	2890
5.2	15.5	1810	16.2	2080	17.1	2350	17.1	2650	18.3	2940
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. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)	Rad. (m)	Flow (l/h)
2.1	-	-	-	-	13.4	1560	13.7	1750	14.0	1960
2.4	12.8	1340	13.4	1530	13.4	1690	14.3	1890	14.6	2110
2.8	13.7	1440	13.7	1640	14.0	1820	14.9	2020	15.2	2280
3.1	14.0	1530	14.0	1740	14.6	1940	15.2	2150	15.8	2410
3.4	14.0	1610	14.6	1840	15.2	2050	15.8	2280	16.5	2540
3.8	14.0	1690	14.9	1910	15.8	2130	16.5	2390	17.1	2690
4.1	14.3	1760	15.2	2020	15.8	2250	16.5	2510	17.1	2790
4.5	14.6	1840	15.2	2120	15.8	2340	17.1	2610	17.4	2920
4.8	14.6	1910	15.5	2180	16.5	2420	17.1	2710	17.7	3020
5.2	14.6	1990	15.5	2250	16.8	2520	17.4	2800	17.7	3150
5.5	14.9	2040	15.8	2330	16.8	2600	17.7	2900	18.3	3230

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

30H / 30WH

3/4" (19mm) 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



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

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

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

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

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

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

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

* Nozzles must be purchased separately. See chart below.

Item Numbers and Ordering Information

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

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

Bold nozzle size number denotes the most common nozzle choice.

30H / 30WH

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)	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	13.0	0.32	1.16
2.0	12.3	0.19	0.69	12.9	0.24	0.87	13.3	0.29	1.05	13.7	0.35	1.25
2.5	12.5	0.22	0.78	13.3	0.27	0.97	13.8	0.33	1.18	14.4	0.38	1.39
3.0	12.8	0.24	0.85	13.5	0.29	1.05	14.1	0.35	1.27	14.8	0.42	1.52
3.5	13.0	0.26	0.93	13.7	0.32	1.14	14.5	0.39	1.39	15.3	0.46	1.65
4.0	13.2	0.27	0.98	14.0	0.34	1.22	14.7	0.41	1.47	15.5	0.49	1.77
4.5	13.4	0.29	1.05	14.2	0.37	1.32	14.9	0.44	1.57	15.7	0.52	1.87
5.0	13.6	0.31	1.11	14.4	0.38	1.36	15.2	0.46	1.66	15.9	0.55	1.96
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					
NOZZLE SIZE										(Stream Height: 1.1m)					
bar @ Nozzle	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°			4.76 mm x 3.18 mm (3/16" 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)
1.7	12.2	0.26	0.95	12.5	0.30	1.09	12.6	0.35	1.27	13.0	0.40	1.45	13.0	0.47	1.68
2.0	12.3	0.29	1.03	12.9	0.33	1.18	13.3	0.38	1.36	13.7	0.43	1.56	13.7	0.50	1.81
2.5	12.5	0.31	1.13	13.3	0.37	1.32	13.8	0.42	1.52	14.4	0.48	1.74	14.4	0.56	2.01
3.0	12.8	0.35	1.24	13.5	0.40	1.45	14.1	0.46	1.65	14.8	0.53	1.90	14.8	0.61	2.21
3.5	13.0	0.37	1.35	13.7	0.43	1.55	14.5	0.50	1.80	15.3	0.57	2.06	15.3	0.66	2.38
4.0	13.2	0.40	1.43	14.0	0.46	1.65	14.7	0.53	1.92	15.5	0.61	2.20	15.5	0.71	2.54
4.5	13.4	0.42	1.52	14.2	0.49	1.77	14.9	0.56	2.03	15.7	0.64	2.32	15.7	0.75	2.69
5.0	13.6	0.44	1.60	14.4	0.52	1.86	15.2	0.60	2.15	15.9	0.68	2.46	15.9	0.79	2.84
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)	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	14.0	0.32	1.16
2.0	13.2	0.19	0.69	13.7	0.24	0.87	14.0	0.29	1.05	14.4	0.35	1.25
2.5	13.6	0.22	0.78	14.1	0.27	0.97	14.4	0.33	1.18	15.0	0.38	1.39
3.0	14.0	0.24	0.85	14.5	0.29	1.05	14.8	0.35	1.27	15.7	0.42	1.52
3.5	14.2	0.26	0.93	15.0	0.32	1.14	15.3	0.39	1.39	16.2	0.46	1.65
4.0	14.4	0.27	0.98	15.3	0.34	1.22	15.6	0.41	1.47	16.5	0.49	1.77
4.5	14.6	0.29	1.05	15.6	0.37	1.32	15.9	0.44	1.57	16.8	0.52	1.87
5.0	14.9	0.31	1.11	15.8	0.38	1.36	16.3	0.46	1.66	17.0	0.55	1.96
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					
NOZZLE SIZE (Stream Height: 3m)															
bar @ Nozzle	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°			4.76 mm x 3.18 mm (3/16" 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)
1.7	13.0	0.26	0.95	13.4	0.30	1.09	13.9	0.35	1.27	13.9	0.40	1.45	13.9	0.47	1.68
2.0	13.2	0.29	1.03	13.7	0.33	1.18	14.0	0.38	1.36	14.4	0.43	1.56	14.4	0.50	1.81
2.5	13.6	0.31	1.13	14.1	0.37	1.32	14.4	0.42	1.52	15.0	0.48	1.74	15.0	0.56	2.01
3.0	14.0	0.35	1.24	14.5	0.40	1.45	14.8	0.46	1.65	15.7	0.53	1.90	15.7	0.61	2.21
3.5	14.2	0.37	1.35	15.0	0.43	1.55	15.3	0.50	1.80	16.2	0.57	2.06	16.2	0.66	2.38
4.0	14.4	0.40	1.43	15.3	0.46	1.65	15.6	0.53	1.92	16.5	0.61	2.20	16.5	0.71	2.54
4.5	14.6	0.42	1.52	15.6	0.49	1.77	15.9	0.56	2.03	16.8	0.64	2.32	16.8	0.75	2.69
5.0	14.9	0.44	1.60	15.8	0.52	1.86	16.3	0.60	2.15	17.0	0.68	2.46	17.0	0.79	2.84
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.



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 (m³/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) with Spreader (LAN-1-20) * METRIC

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 (m³/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.

Item 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.

70CH

1" (25mm) Full Circle, Brass Impact Sprinkler

- Heavy duty brass construction
- 70CH Female NPT Bearing

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
- 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. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
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. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
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.



Item 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.

70CH

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")		
	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
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
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
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
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
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
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

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°		
	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
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
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
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
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
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
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

* 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

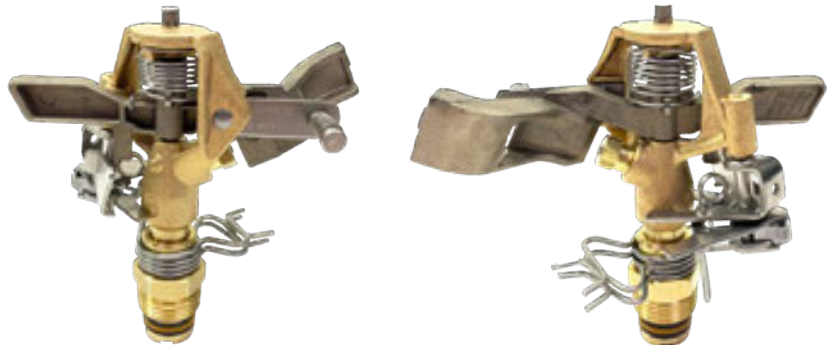
Straight Bore Nozzle (SBN-1) Performance*

psi@ Nozzle	NOZZLE SIZE (Stream Height: 7 ft.)			
	9/64"		5/32"	
	Rad. (ft.)	Flow (gpm)	Rad. (ft.)	Flow (gpm)
30	38	3.10	39	3.80
35	38	3.40	39	4.10
40	39	3.60	40	4.40
45	39	3.80	40	4.70
50	40	4.00	41	5.00

Straight Bore Nozzle (SBN-1) Performance*

METRIC

bar@ Nozzle	NOZZLE SIZE (Stream Height: 2.1m)					
	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)
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



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

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

Low Angle Nozzle (LAN-1)

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

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. (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	-	-	-	9.8	0.14	0.5	10.7	0.18	0.64	11.6	0.26	0.95	11.9	0.35	1.25
2.0	-	-	-	10.4	0.15	0.55	11.0	0.19	0.68	11.9	0.28	1.01	12.3	0.37	1.32
2.5	11.3	0.13	0.46	11.4	0.17	0.62	11.7	0.21	0.76	12.5	0.31	1.11	12.9	0.40	1.45
3.0	11.5	0.14	0.51	11.8	0.19	0.67	12.1	0.23	0.83	12.8	0.34	1.21	13.3	0.44	1.59
3.5	11.6	0.15	0.55	12.2	0.20	0.72	12.4	0.25	0.89	13.0	0.36	1.30	13.6	0.48	1.72
4.0	11.6	0.16	0.58	12.5	0.22	0.78	12.7	0.26	0.94	13.3	0.39	1.42	13.7	0.52	1.86
4.1	11.6	0.16	0.59	12.5	0.22	0.79	12.8	0.26	0.95	13.4	0.40	1.45	13.7	0.53	1.91

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. (m)	Flow (l/s)	Flow (m³/h)	Rad. (m)	Flow (l/s)	Flow (m³/h)
1.7	6.7	0.09	0.34	7.06	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



Item 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.

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

Bold nozzle size number denotes the most common nozzle choice.

35A-TNT

3/4" (19mm) 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) 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 (m³/h)	Rad. (m)	Flow (l/s)	Flow (m³/h)	Rad. (m)	Flow (l/s)	Flow (m³/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



Item Numbers and Ordering Information

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

Nozzle Only			XX = Nozzle Size		
U.S. Standard			5/32"	11/64"	3/16"
Metric			3.97 mm	4.37 mm	4.76 mm
Brass Straight Bore Adjustable Nozzle	ADJN-3	100328-XX	10	11	12
Brass 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" (25mm) 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

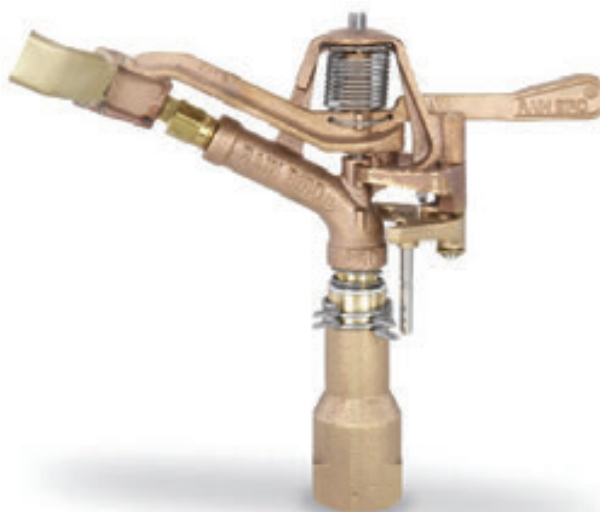
Specifications

- 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

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

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

Adjustable Straight Bore Nozzle (ADJN-4) Performance			METRIC
bar @ Nozzle	NOZZLE SIZE (Stream Height: 2.9 - 4.3 m)		
	6.35 mm (1/4") Flow (l/s)	Flow (m³/h)	
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



Item Numbers and Ordering Information

Sprinkler Only	
Sprinkler without Nozzle	AG2001

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

Nozzle Only			XX = Nozzle Size
U.S. Standard			1/4"
Metric			6.35 mm
Brass Straight Bore Adjustable Nozzle	ADJN-4	100385-XX	16

Bold nozzle size number denotes the most common nozzle choice.

85EHD Tough Bird®

1 1/4" (32mm) 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)	Rad. Flow (ft.) (gpm)	Rad. Flow (ft.) (gpm)	Rad. Flow (ft.) (gpm)	Rad. Flow (ft.) (gpm)	Rad. Flow (ft.) (gpm)	Rad. Flow (ft.) (gpm)	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.

Item Numbers and Ordering Information

Sprinkler Only	
Sprinkler without Nozzle without Plug	A23600

Nozzle Only			XX = Nozzle Size										
U.S. Standard			7/32"	11/32"	3/8"	13/32"	7/16"	15/32"	1/2"	17/32"	9/16"	5/8"	11/16"
Metric			5.56mm	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.

85EHD Tough Bird®

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. (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	18.6	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)
	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")		
bar @ Nozzle	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	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

Straight Bore Nozzle (SBN-5) and Spreader (LAN-1-20) Performance*													METRIC		
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. (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	18.6	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.